EduSahara™ Learning Center Assignment

Grade : Class VIII, CBSE
Chapter : Understanding Quadrilaterals
Name : Quadrilateral Properties Using Diagrams
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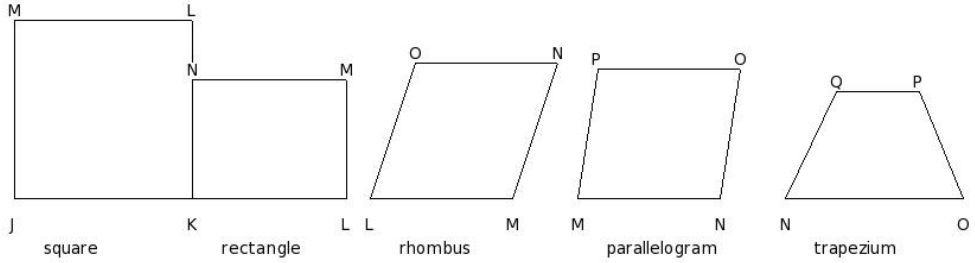
1. Which of the following figures is a regular quadrilateral?



(i) rectangle (ii) square (iii) trapezium (iv) rhombus (v) parallelogram

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2. In the given parallelogram, which of the following statements are true?

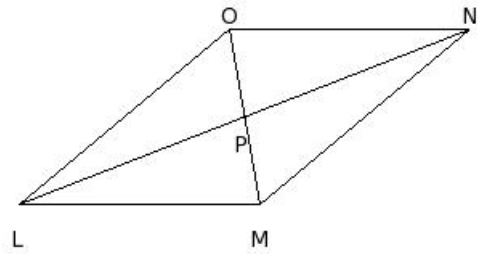
a) $\overline{LM} \parallel \overline{NO}$

b) $\triangle PLM \cong \triangle PNO$

c) P is the mid point of $\overline{LN}$

d) $\triangle MOL \cong \triangle NOL$

e) MP = PN



(i) {d,a} (ii) {d,a,b} (iii) {a,b,c} (iv) {d,e,c} (v) {e,b}

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3. In the given parallelogram, which of the following statements are true?

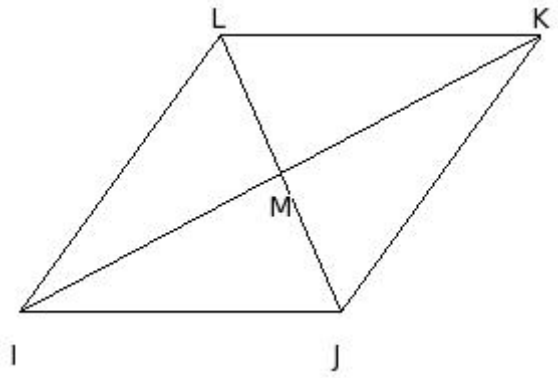
a) $\triangle MLI \cong \triangle MJK$

b) $\overline{LI} \parallel \overline{JK}$

c) $\triangle JLI \cong \triangle KLI$

d) JM = MK

e) M is the mid point of $\overline{JL}$



(i) {c,d,e} (ii) {d,b} (iii) {c,a} (iv) {a,b,e} (v) {c,a,b}

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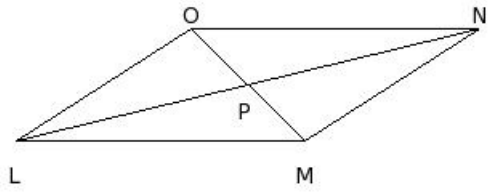
4. In parallelogram LMNO , diagonals $\overline{MO}$ and $\overline{LN}$ intersect at P . Then $\overline{LM}$ ||



(i) $\overline{OL}$ (ii) $\overline{MO}$ (iii) $\overline{MN}$ (iv) $\overline{LN}$ (v) $\overline{NO}$

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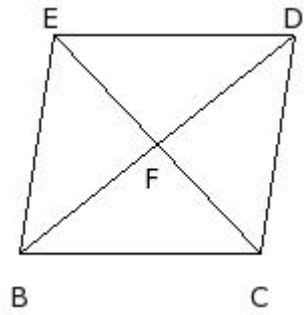
5. In parallelogram BCDE , diagonals $\overline{CE}$ and $\overline{BD}$ intersect at F . Then $\overline{DE}$ ||



(i) $\overline{CE}$ (ii) $\overline{CD}$ (iii) $\overline{EB}$ (iv) $\overline{BC}$ (v) $\overline{BD}$

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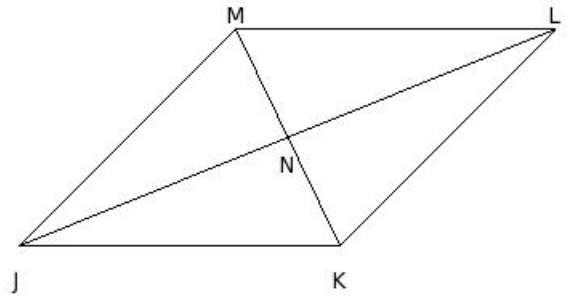
6. In parallelogram JKLM , diagonals $\overline{KM}$ and $\overline{JL}$ intersect at N . Then $\overline{MJ}$ ||



(i) $\overline{JK}$ (ii) $\overline{LM}$ (iii) $\overline{KL}$ (iv) $\overline{JL}$ (v) $\overline{KM}$

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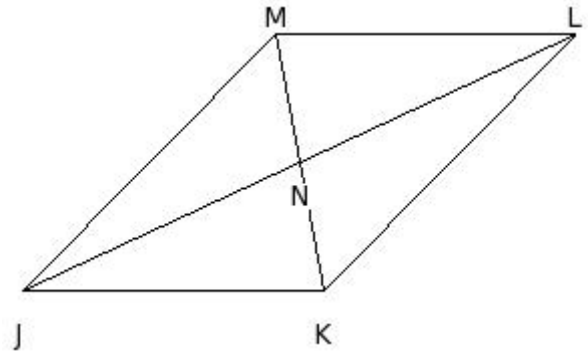
7. In parallelogram JKLM , diagonals $\overline{KM}$ and $\overline{JL}$ intersect at N . Then $\overline{KL}$ ||



(i) $\overline{MJ}$ (ii) $\overline{KM}$ (iii) $\overline{LM}$ (iv) $\overline{JK}$ (v) $\overline{JL}$

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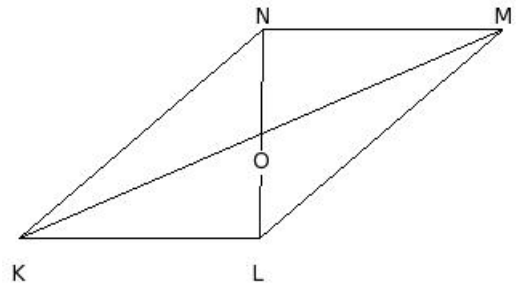
8. In parallelogram KLMN , diagonals $\overline{LN}$ and $\overline{KM}$ intersect at O . Then KL =



(i) KM (ii) LN (iii) MN (iv) LM (v) NK

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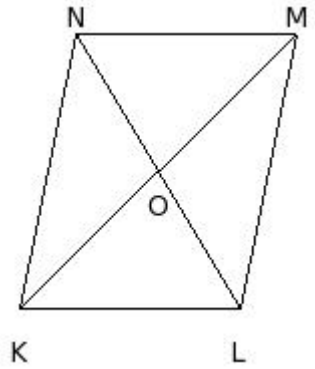
9. In parallelogram KLMN , diagonals $\overline{LN}$ and $\overline{KM}$ intersect at O . Then MN =



(i) LM (ii) LN (iii) NK (iv) KM (v) KL

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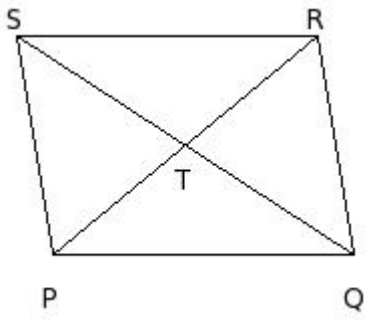
10. In parallelogram PQRS , diagonals $\overline{QS}$ and $\overline{PR}$ intersect at T . Then SP =



(i) QS (ii) QR (iii) PR (iv) RS (v) PQ

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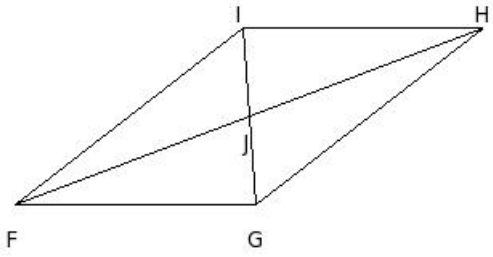
11. In parallelogram FGHI , diagonals $\overline{GI}$ and $\overline{FH}$ intersect at J . Then GH =



(i) IF (ii) FG (iii) FH (iv) HI (v) GI

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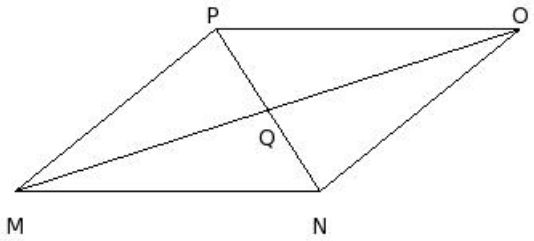
12. In parallelogram MNOP , diagonals $\overline{NP}$ and $\overline{MO}$ intersect at Q . Then $\triangle PMN \cong$



(i) △OPQ (ii) △MNO (iii) △MNQ (iv) △NOP (v) △OPM

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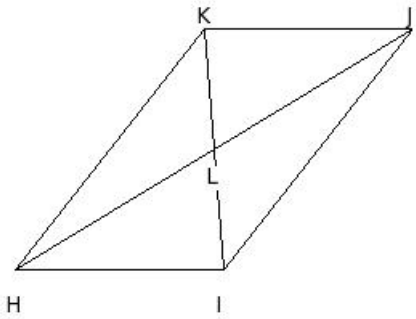
13. In parallelogram HIJK , diagonals $\overline{IK}$ and $\overline{HJ}$ intersect at L . Then △IJK ≅



(i) △HIJ (ii) △JKH (iii) △JKL (iv) △KHI (v) △HIL

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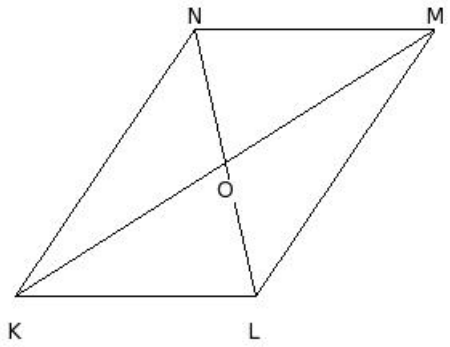
14. In parallelogram KLMN , diagonals $\overline{LN}$ and $\overline{KM}$ intersect at O . Then △MNK ≅



(i) △LMN (ii) △KLO (iii) △MNO (iv) △KLM (v) △NKL

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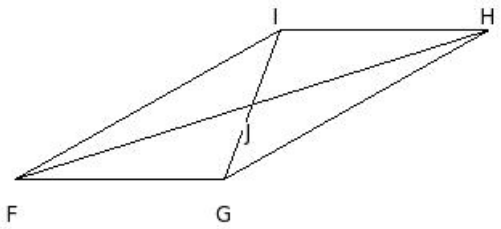
15. In parallelogram FGHI , diagonals $\overline{GI}$ and $\overline{FH}$ intersect at J . Then △FGH ≅



(i) △IFG (ii) △HIF (iii) △FGJ (iv) △HIJ (v) △GHI

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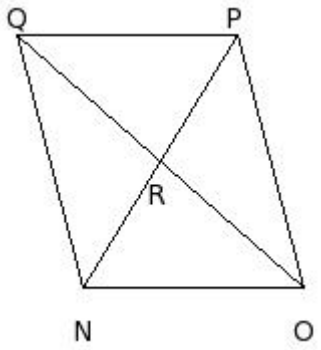
16. In parallelogram NOPQ , diagonals $\overline{OQ}$ and $\overline{NP}$ intersect at R . Then ∠QNO =



(i) ∠OPQ (ii) ∠NOP (iii) ∠NOR (iv) ∠PQR (v) ∠PQN

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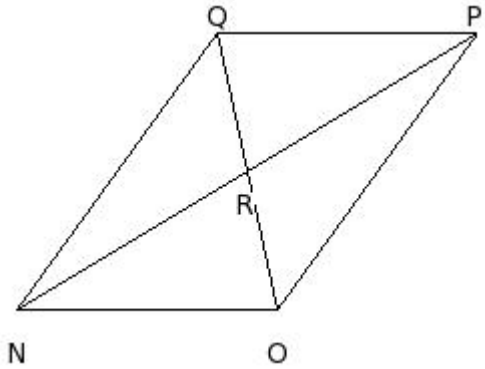
17. In parallelogram NOPQ , diagonals $\overline{OQ}$ and $\overline{NP}$ intersect at R . Then ∠OPQ =



(i) ∠QNO (ii) ∠PQR (iii) ∠NOP (iv) ∠PQN (v) ∠NOR

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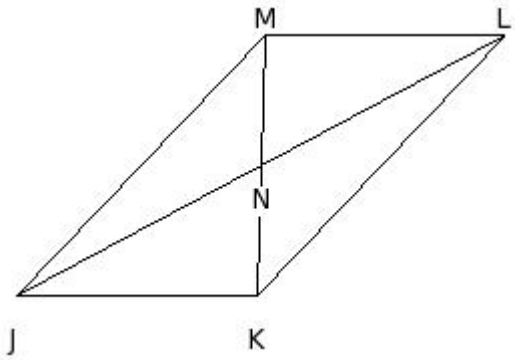
18. In parallelogram JKLM , diagonals $\overline{KM}$ and $\overline{JL}$ intersect at N . Then ∠JKL =



(i) ∠LMN (ii) ∠LMJ (iii) ∠MJK (iv) ∠JKN (v) ∠KLM

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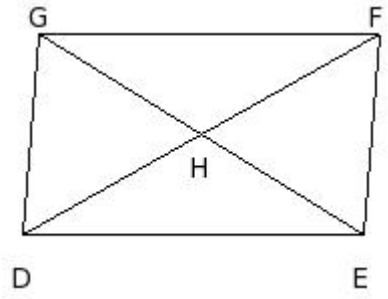
19. In parallelogram DEFG , diagonals $\overline{EG}$ and $\overline{DF}$ intersect at H . Then $\angle FGD$ =



(i) $\angle GDE$ (ii) $\angle EFG$ (iii) $\angle DEH$ (iv) $\angle DEF$ (v) $\angle FGH$

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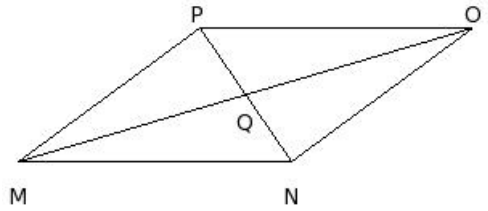
20. In parallelogram MNOP , diagonals $\overline{NP}$ and $\overline{MO}$ intersect at Q . Then OQ =



(i) NQ (ii) PQ (iii) NO (iv) MQ (v) PM

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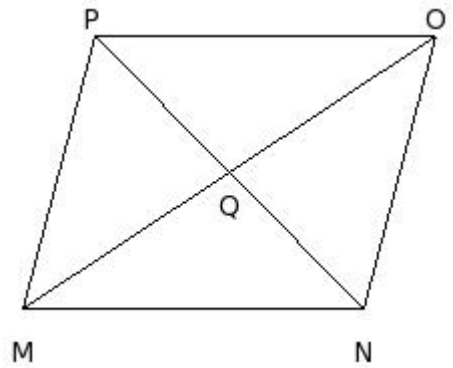
21. In parallelogram MNOP , diagonals $\overline{NP}$ and $\overline{MO}$ intersect at Q . Then MQ =



(i) NQ (ii) NO (iii) OQ (iv) PM (v) PQ

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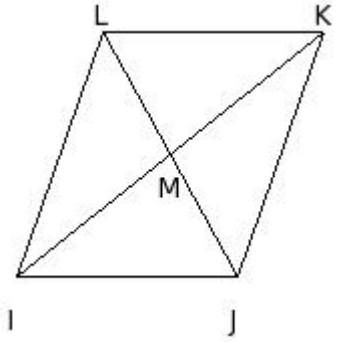
22. In parallelogram IJKL , diagonals $\overline{JL}$ and $\overline{IK}$ intersect at M . Then LM =



(i) JM (ii) LI (iii) KM (iv) JK (v) IM

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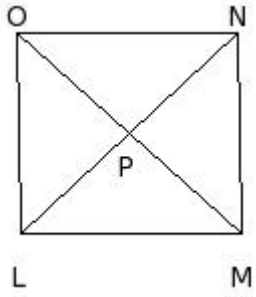
23. In parallelogram LMNO , diagonals $\overline{MO}$ and $\overline{LN}$ intersect at P . Then MP =



(i) OP (ii) NP (iii) MN (iv) LP (v) OL

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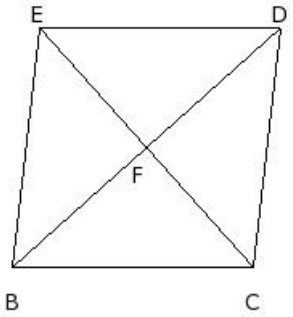
24. In rhombus BCDE , diagonals $\overline{BD}$ and $\overline{CE}$ intersect at F . Then $\overline{BC}$ ||



(i) $\overline{EB}$ (ii) $\overline{CE}$ (iii) $\overline{DE}$ (iv) $\overline{CD}$

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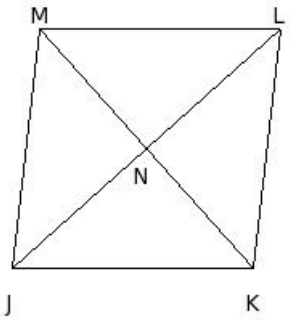
25. In rhombus JKLM , diagonals $\overline{JL}$ and $\overline{KM}$ intersect at N . Then $\overline{LM}$ ||



(i) $\overline{JK}$ (ii) $\overline{KM}$ (iii) $\overline{KL}$ (iv) $\overline{MJ}$

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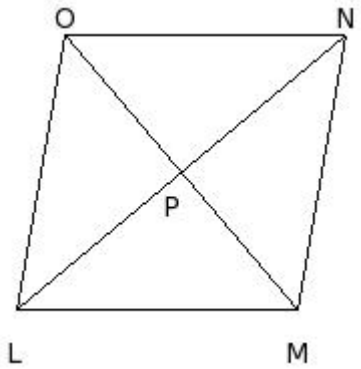
26. In rhombus LMNO , diagonals $\overline{LN}$ and $\overline{MO}$ intersect at P . Then $\overline{OL} \parallel$



(i) $\overline{LM}$ (ii) $\overline{MO}$ (iii) $\overline{MN}$ (iv) $\overline{NO}$

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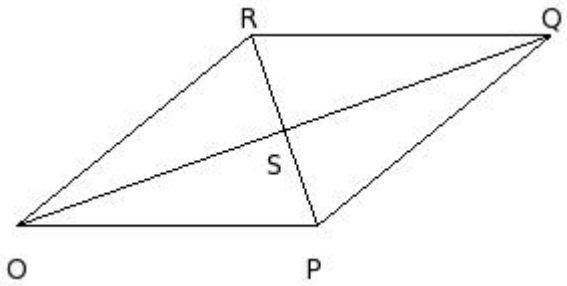
27. In rhombus OPQR , diagonals $\overline{OQ}$ and $\overline{PR}$ intersect at S . Then $\overline{PQ} \parallel$



(i) $\overline{PR}$ (ii) $\overline{OP}$ (iii) $\overline{QR}$ (iv) $\overline{RO}$

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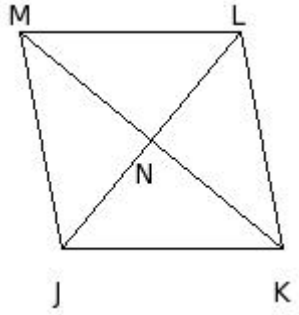
28. In rhombus JKLM , diagonals $\overline{JL}$ and $\overline{KM}$ intersect at N . Then JK $\neq$



(i) LM (ii) MJ (iii) KL (iv) KM

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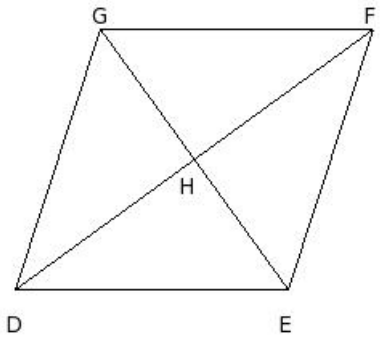
29. In rhombus DEFG , diagonals $\overline{DF}$ and $\overline{EG}$ intersect at H . Then FG $\neq$



(i) EF (ii) DE (iii) EG (iv) GD

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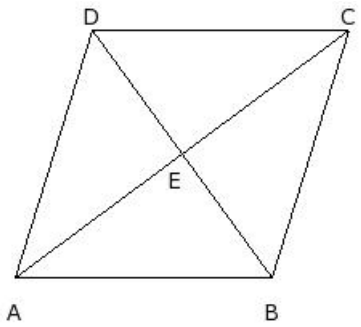
30. In rhombus ABCD , diagonals $\overline{AC}$ and $\overline{BD}$ intersect at E . Then DA $\neq$



(i) BD (ii) BC (iii) CD (iv) AB

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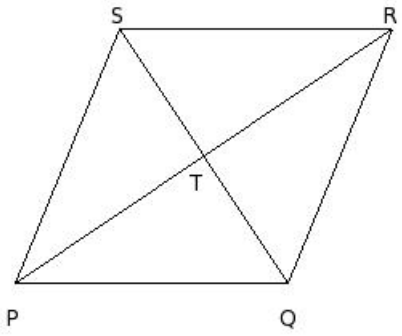
31. In rhombus PQRS , diagonals $\overline{PR}$ and $\overline{QS}$ intersect at T . Then QR $\neq$



(i) SP (ii) QS (iii) PQ (iv) RS

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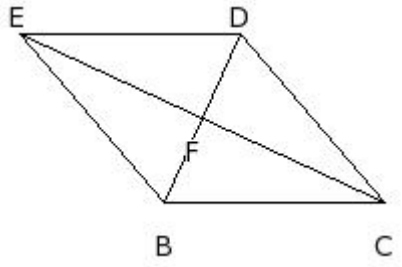
32. In rhombus BCDE , diagonals $\overline{BD}$ and $\overline{CE}$ intersect at F . Then $\triangle EBC \cong$



(i) $\triangle CDE$ (ii) $\triangle BCD$ (iii) $\triangle DEB$ (iv) $\triangle FBC$

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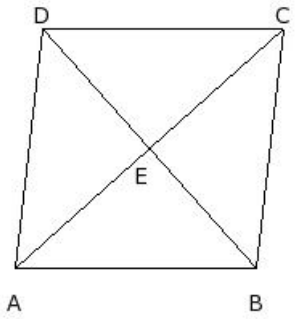
33. In rhombus ABCD , diagonals $\overline{AC}$ and $\overline{BD}$ intersect at E . Then $\triangle BCD \cong$



(i) $\triangle DAB$ (ii) $\triangle ABC$ (iii) $\triangle CDA$ (iv) $\triangle EAB$

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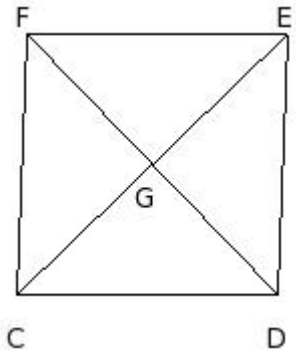
34. In rhombus CDEF , diagonals $\overline{CE}$ and $\overline{DF}$ intersect at G . Then $\triangle EFC \cong$



(i) △DEF (ii) △FCD (iii) △GCD (iv) △CDE

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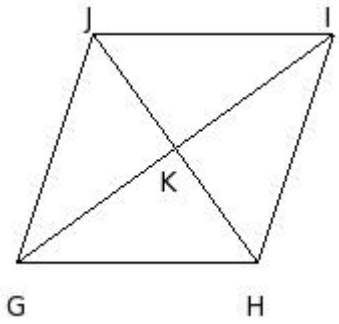
35. In rhombus GHIJ , diagonals $\overline{GI}$ and $\overline{HJ}$ intersect at K . Then △GHI ≅



(i) △KGH (ii) △IJG (iii) △HIJ (iv) △JGH

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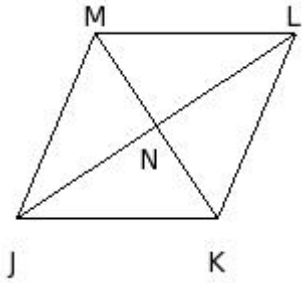
36. In rhombus JKLM , diagonals $\overline{JL}$ and $\overline{KM}$ intersect at N . Then △NJK ≇



(i) △MJK (ii) △NKL (iii) △NMJ (iv) △NLM

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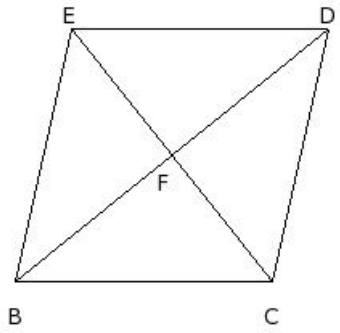
37. In rhombus BCDE , diagonals $\overline{BD}$ and $\overline{CE}$ intersect at F . Then △FDE ≇



(i) △FEB (ii) △FBC (iii) △EBC (iv) △FCD

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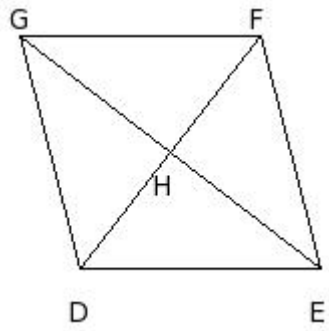
38. In rhombus DEFG , diagonals $\overline{DF}$ and $\overline{EG}$ intersect at H . Then △HGD ≇



(i) △GDE (ii) △HEF (iii) △HFG (iv) △HDE

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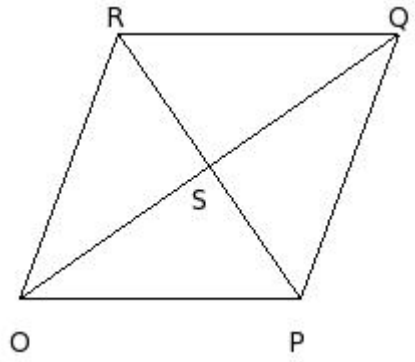
39. In rhombus OPQR , diagonals $\overline{OQ}$ and $\overline{PR}$ intersect at S . Then △SPQ ≇



(i) △SRO (ii) △ROP (iii) △SQR (iv) △SOP

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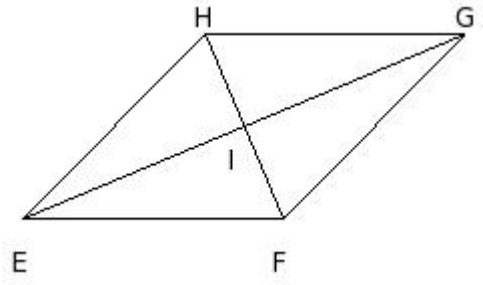
40. In rhombus EFGH , diagonals $\overline{EG}$ and $\overline{FH}$ intersect at I . Then ∠HEF =



(i) ∠FGH (ii) ∠EFI (iii) ∠EFG (iv) ∠GHE

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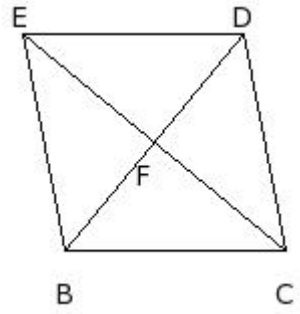
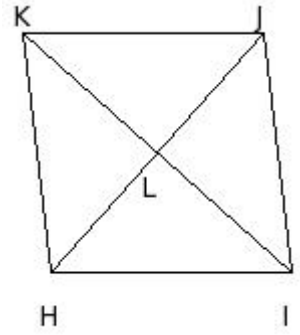
41. In rhombus BCDE , diagonals $\overline{BD}$ and $\overline{CE}$ intersect at F . Then ∠CDE =



(i) ∠BCD (ii) ∠DEB (iii) ∠EBC (iv) ∠BCF

---

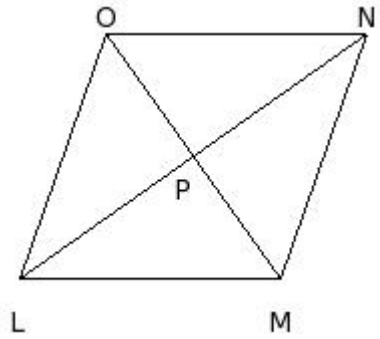
42. In rhombus HIJK , diagonals $\overline{HJ}$ and $\overline{IK}$ intersect at L . Then ∠HIJ =



(i) ∠HIL (ii) ∠IJK (iii) ∠KHI (iv) ∠JKH

---

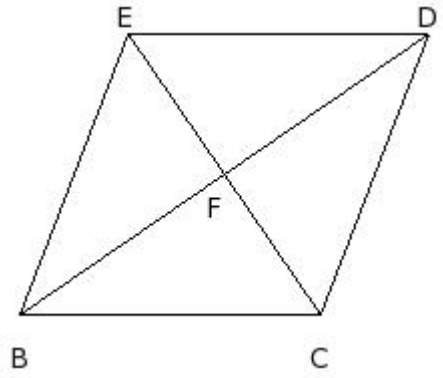
43. In rhombus LMNO , diagonals $\overline{LN}$ and $\overline{MO}$ intersect at P . Then ∠NOL =



(i) ∠LMN (ii) ∠LMP (iii) ∠OLM (iv) ∠MNO

---

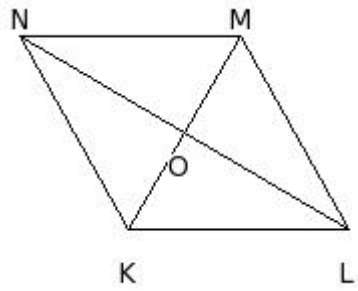
44. In rhombus BCDE , diagonals $\overline{BD}$ and $\overline{CE}$ intersect at F . Then ∠CFB ≠



(i) ∠BFE (ii) ∠EFD (iii) ∠DFC (iv) ∠EBC

---

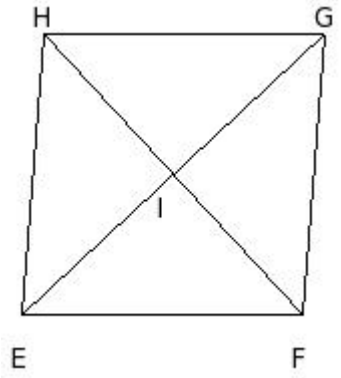
45. In rhombus KLMN , diagonals $\overline{KM}$ and $\overline{LN}$ intersect at O . Then ∠NOM ≠



(i) ∠LOK (ii) ∠MOL (iii) ∠NKL (iv) ∠KON

---

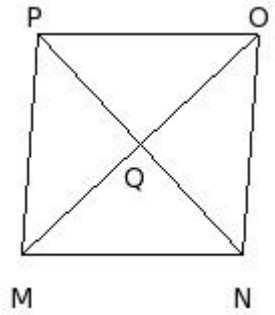
46. In rhombus EFGH , diagonals $\overline{EG}$ and $\overline{FH}$ intersect at I . Then ∠EIH ≠



(i) ∠HEF (ii) ∠HIG (iii) ∠GIF (iv) ∠FIE

---

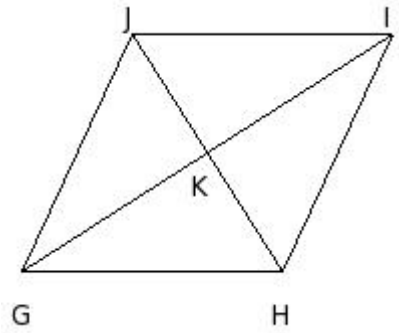
47. In rhombus MNOP , diagonals $\overline{MO}$ and $\overline{NP}$ intersect at Q . Then ∠OQN ≠



(i) ∠MQP (ii) ∠PQO (iii) ∠PMN (iv) ∠NQM

---

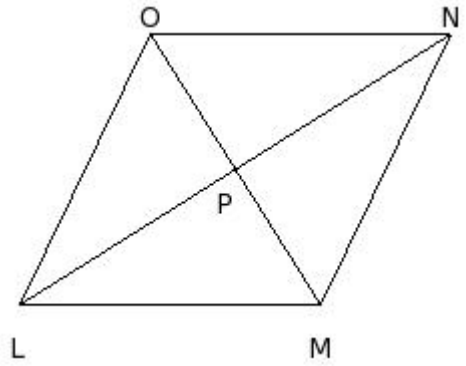
48. In rhombus GHIJ , diagonals $\overline{GI}$ and $\overline{HJ}$ intersect at K . Then ∠KGH ≠



(i) ∠HIK (ii) ∠GKJ (iii) ∠JGK (iv) ∠KIJ

---

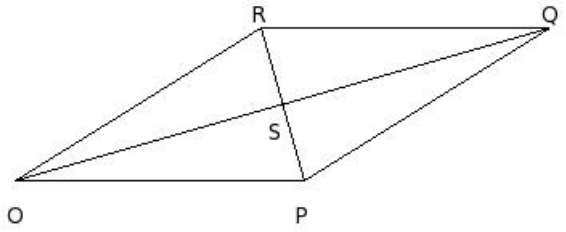
49. In rhombus LMNO , diagonals $\overline{LN}$ and $\overline{MO}$ intersect at P . Then ∠PNO ≠



(i) ∠LPO (ii) ∠PLM (iii) ∠OLP (iv) ∠MNP

---

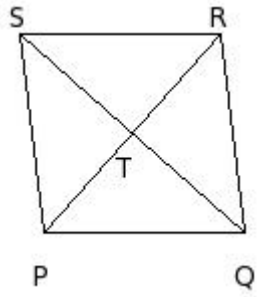
50. In rhombus OPQR , diagonals $\overline{OQ}$ and $\overline{PR}$ intersect at S . Then ∠ROS ≠



(i) ∠PQS (ii) ∠SOP (iii) ∠SQR (iv) ∠OSR

---

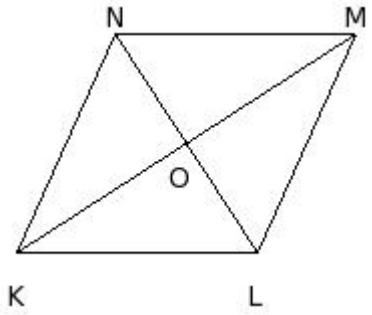
51. In rhombus PQRS , diagonals $\overline{PR}$ and $\overline{QS}$ intersect at T . Then ∠QRT ≠



(i) ∠SPT (ii) ∠TPQ (iii) ∠PTS (iv) ∠TRS

---

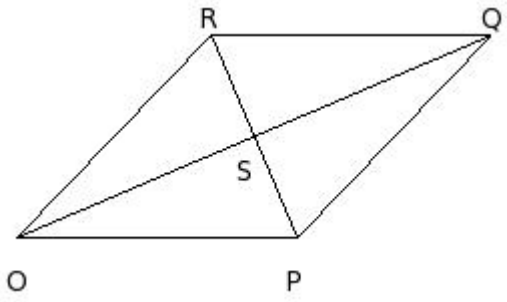
52. In rhombus KLMN , diagonals $\overline{KM}$ and $\overline{LN}$ intersect at O . Then ∠ONK ≠



(i) ∠KLO (ii) ∠MNO (iii) ∠NOM (iv) ∠OLM

---

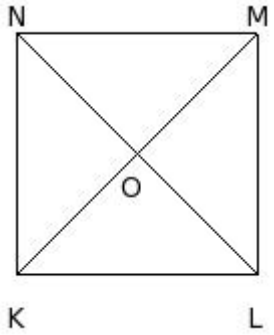
53. In rhombus OPQR , diagonals $\overline{OQ}$ and $\overline{PR}$ intersect at S . Then ∠SPQ ≠



(i) ∠RSQ (ii) ∠OPS (iii) ∠QRS (iv) ∠SRO

---

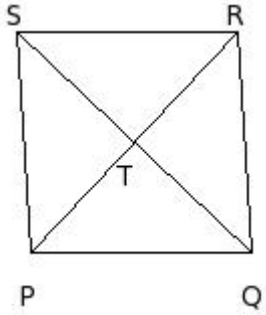
54. In rhombus KLMN , diagonals $\overline{KM}$ and $\overline{LN}$ intersect at O . Then ∠KLO ≠



(i) ∠OLM (ii) ∠NOM (iii) ∠ONK (iv) ∠MNO

---

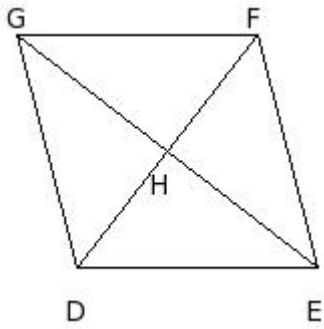
55. In rhombus PQRS , diagonals $\overline{PR}$ and $\overline{QS}$ intersect at T . Then ∠RST ≠



(i) ∠TQR (ii) ∠STR (iii) ∠PQT (iv) ∠TSP

---

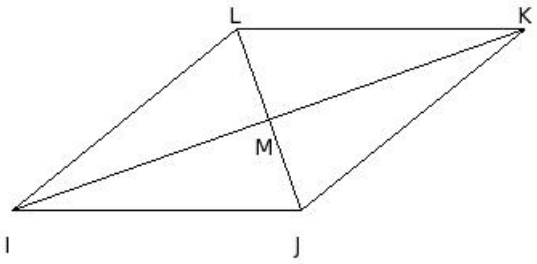
56. In rhombus DEFG , diagonals $\overline{DF}$ and $\overline{EG}$ intersect at H . Then GH =



(i) GD (ii) EH (iii) FH (iv) DH

---

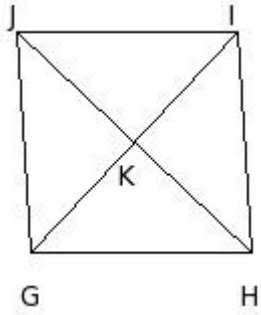
57. In rhombus IJKL , diagonals $\overline{IK}$ and $\overline{JL}$ intersect at M . Then JM =



(i) LM (ii) LI (iii) KM (iv) IM

---

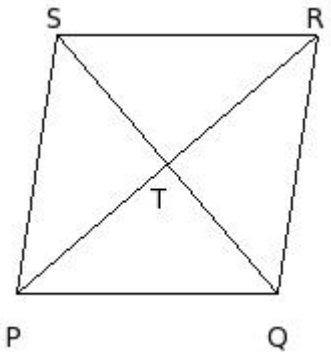
58. In rhombus GHIJ , diagonals $\overline{GI}$ and $\overline{HJ}$ intersect at K . Then GK =



(i) HK (ii) JG (iii) IK (iv) JK

---

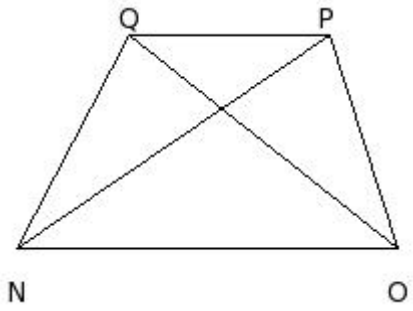
59. In rhombus PQRS , diagonals $\overline{PR}$ and $\overline{QS}$ intersect at T . Then RT =



(i) ST (ii) SP (iii) QT (iv) PT

---

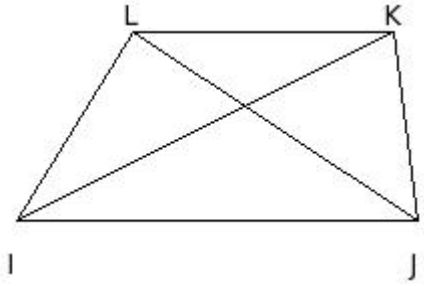
60. In trapezium NOPQ , $\overline{NP}$ and $\overline{OQ}$ are diagonals. Then $\overline{NO}$ ||



(i) $\overline{OP}$ (ii) $\overline{OQ}$ (iii) $\overline{QN}$ (iv) $\overline{PQ}$ (v) $\overline{NP}$

---

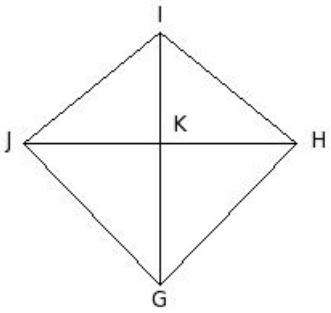
61. In trapezium IJKL , $\overline{IK}$ and $\overline{JL}$ are diagonals. Then $\overline{KL}$ ||



(i) $\overline{LI}$ (ii) $\overline{IK}$ (iii) $\overline{JL}$ (iv) $\overline{IJ}$ (v) $\overline{JK}$

---

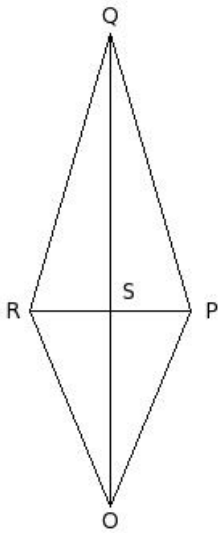
62. In kite GHIJ , $\overline{GI}$ and $\overline{HJ}$ are diagonals. Then GH =



(i) HI (ii) IJ (iii) JG (iv) HJ (v) GI

---

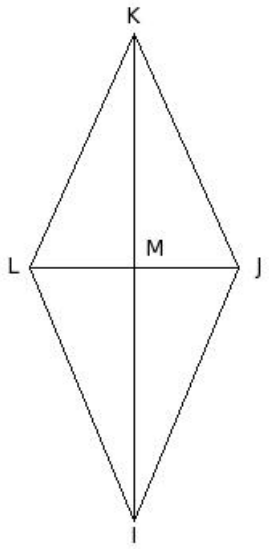
63. In kite OPQR , $\overline{OQ}$ and $\overline{PR}$ are diagonals. Then RO =



(i) OP (ii) PR (iii) OQ (iv) PQ (v) QR

---

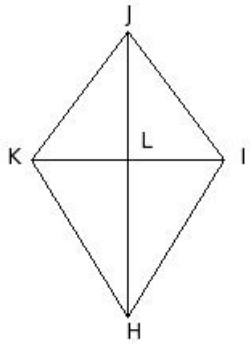
64. In kite IJKL , $\overline{IK}$ and $\overline{JL}$ are diagonals. Then JK =



(i) JL (ii) IJ (iii) IK (iv) LI (v) KL

---

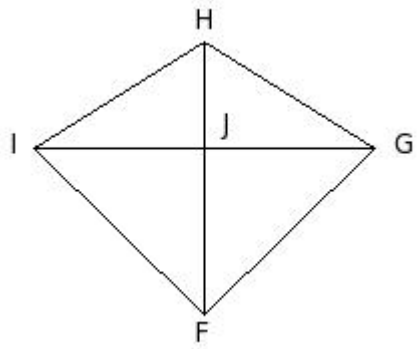
65. In kite HIJK , $\overline{HJ}$ and $\overline{IK}$ are diagonals. Then JK =



(i) HJ (ii) IK (iii) HI (iv) KH (v) IJ

---

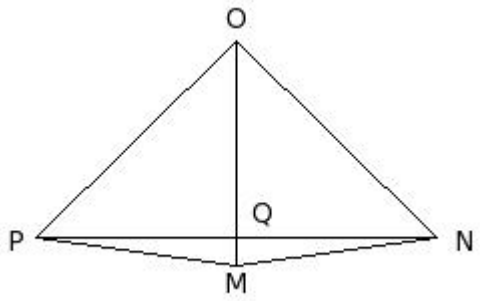
66. In kite FGHI , $\overline{FH}$ and $\overline{GI}$ are diagonals. Then ∠FGH =



(i) ∠HIF (ii) ∠HIG (iii) ∠FJG (iv) ∠FJI (v) ∠FIG

---

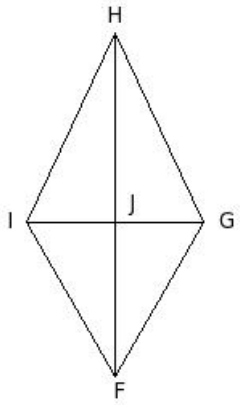
67. In kite MNOP, $\overline{MO}$ and $\overline{NP}$ are diagonals. Then ∠OPM =



(i) ∠MQN (ii) ∠OPN (iii) ∠MNO (iv) ∠MQP (v) ∠MPN

---

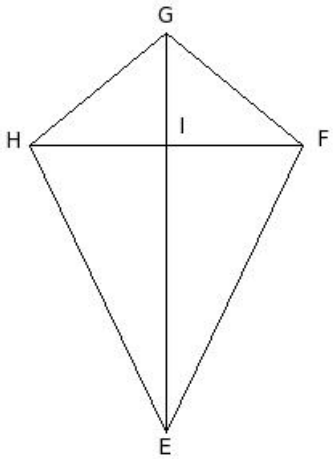
68. In kite FGHI, $\overline{FH}$ and $\overline{GI}$ are diagonals. Then ∠FJI =



(i) ∠FJG (ii) ∠FIG (iii) ∠HIF (iv) ∠HIG (v) ∠FGH

---

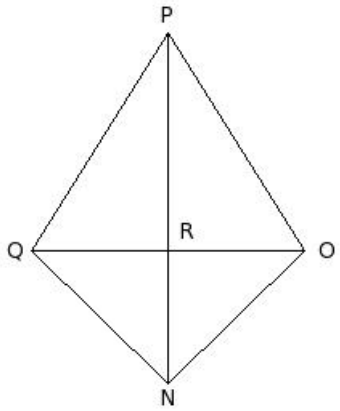
69. In kite EFGH, $\overline{EG}$ and $\overline{FH}$ are diagonals. Then ∠EIF =



(i) ∠EHF (ii) ∠GHE (iii) ∠GHF (iv) ∠EFG (v) ∠EIH

---

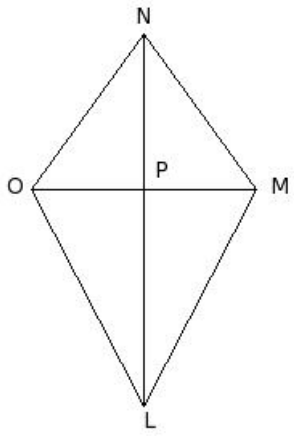
70. In kite NOPQ , $\overline{NP}$ and $\overline{OQ}$ are diagonals. Then $\triangle PQN \cong$



(i) $\triangle PON$ (ii) $\triangle QOP$ (iii) $\triangle RPO$ (iv) $\triangle QON$ (v) $\triangle RQN$

---

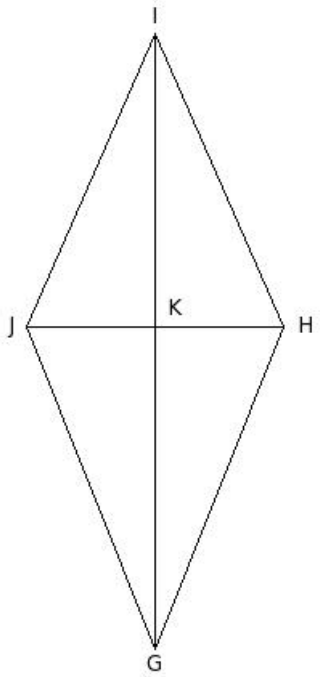
71. In kite LMNO , $\overline{LN}$ and $\overline{MO}$ are diagonals. Then $\triangle NML \cong$



(i) $\triangle OML$ (ii) $\triangle PNM$ (iii) $\triangle POL$ (iv) $\triangle OMN$ (v) $\triangle NOL$

---

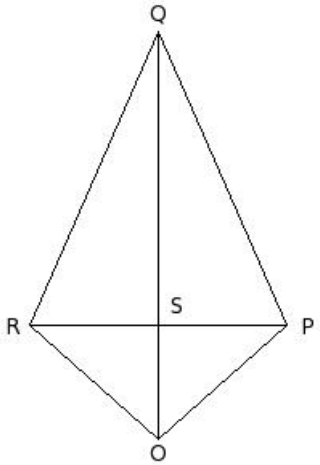
72. In kite GHIJ , $\overline{GI}$ and $\overline{HJ}$ are diagonals. Then $\triangle KJG \cong$



(i) △JHG (ii) △KIH (iii) △KIJ (iv) △JHI (v) △KHG

---

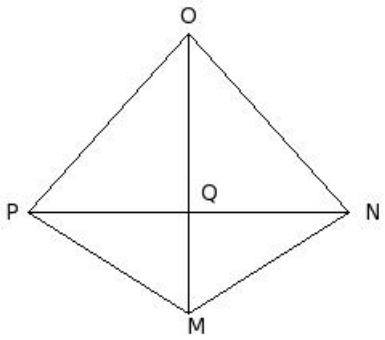
73. In kite OPQR , $\overline{OQ}$ and $\overline{PR}$ are diagonals. Then △SPO ≅



(i) △SQP (ii) △SQR (iii) △SRO (iv) △RPQ (v) △RPO

---

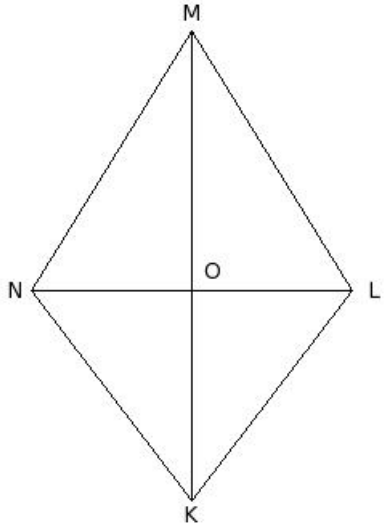
74. In kite MNOP , $\overline{MO}$ and $\overline{NP}$ are diagonals. Then △QOP ≅



(i) △QON (ii) △QNM (iii) △PNO (iv) △PNM (v) △QPM

---

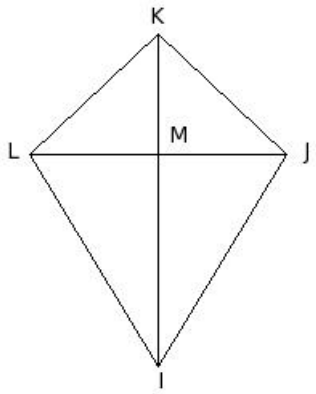
75. In kite KLMN , $\overline{KM}$ and $\overline{LN}$ are diagonals. Then △OML ≅



(i) △OLK (ii) △ONK (iii) △OMN (iv) △NLK (v) △NLM

---

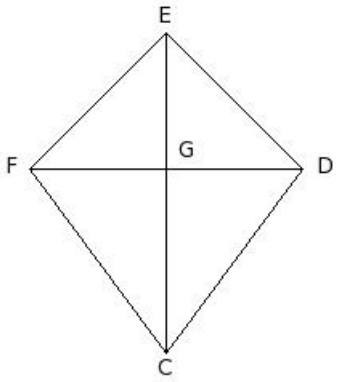
76. In kite IJKL , $\overline{IK}$ and $\overline{JL}$ are diagonals. Then ∠LIM =



(i) ∠JIM (ii) ∠IML (iii) ∠MKL (iv) ∠MKJ (v) ∠LMK

---

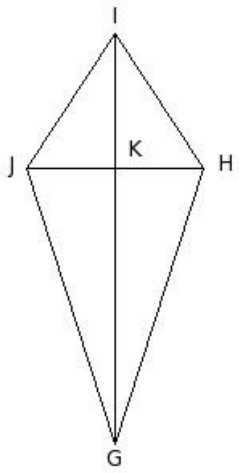
77. In kite CDEF , $\overline{CE}$ and $\overline{DF}$ are diagonals. Then ∠DCG =



(i) ∠GEF (ii) ∠FGE (iii) ∠CGF (iv) ∠FCG (v) ∠GED

---

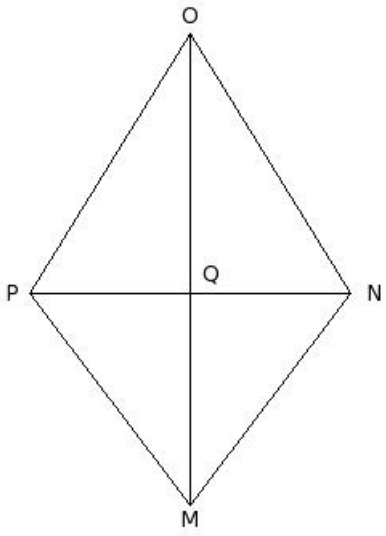
78. In kite GHIJ , $\overline{GI}$ and $\overline{HJ}$ are diagonals. Then ∠KIJ =



(i) ∠KIH (ii) ∠JKI (iii) ∠JGK (iv) ∠GKJ (v) ∠HGK

---

79. In kite MNOP , $\overline{MO}$ and $\overline{NP}$ are diagonals. Then ∠QON =



(i) ∠NMQ (ii) ∠MQP (iii) ∠QOP (iv) ∠PQO (v) ∠PMQ

Assignment Key

1) (ii)
2) (iii)
3) (iv)
4) (v)
5) (iv)
6) (iii)
7) (i)
8) (iii)
9) (v)
10) (ii)
11) (i)
12) (iv)
13) (iv)
14) (iv)
15) (ii)
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18) (ii)
19) (iv)
20) (iv)
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62) (iii)
63) (i)
64) (v)
65) (v)
66) (i)
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