

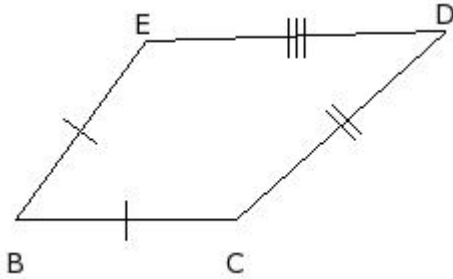
## EduSahara™ Learning Center Assignment

**Grade** : Class IX, CBSE

**Chapter** : Quadrilaterals

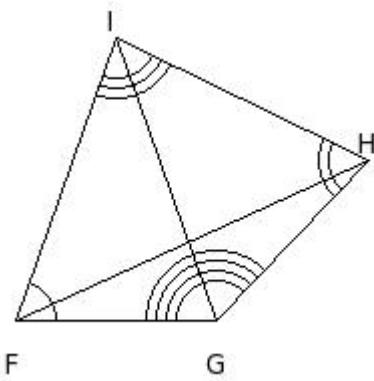
**Name** : Quadrilateral Concepts

1. Identify the figure below



(i) quadrilateral (ii) pentagon (iii) decagon (iv) angle (v) heptagon

2. The sides of the quadrilateral are



(i)  $\overline{FG}$ ,  $\overline{GI}$ ,  $\overline{IJ}$ ,  $\overline{JF}$

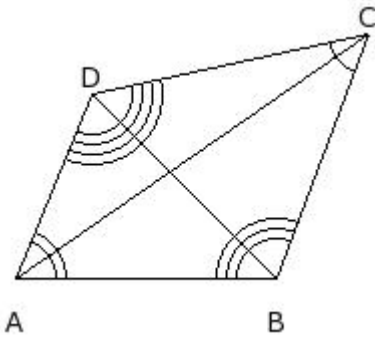
(ii)  $\overline{FH}$ ,  $\overline{HG}$ ,  $\overline{GI}$ ,  $\overline{IF}$

(iii)  $\overline{FH}$ ,  $\overline{HI}$ ,  $\overline{IG}$ ,  $\overline{GF}$

(iv)  $\overline{FG}$ ,  $\overline{GH}$ ,  $\overline{HJ}$ ,  $\overline{JF}$

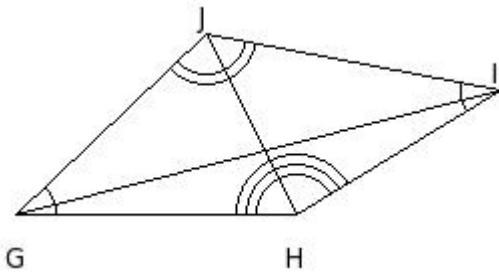
(v)  $\overline{FG}$ ,  $\overline{GH}$ ,  $\overline{HI}$ ,  $\overline{IF}$

3. The name of the quadrilateral is



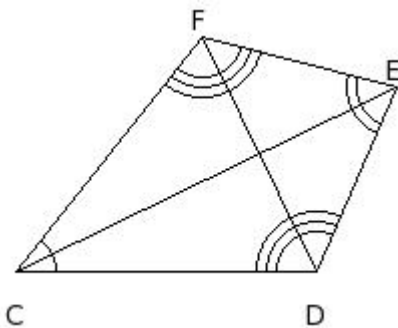
- (i) ABCD
- (ii) ABDE
- (iii) ACBD
- (iv) ACDB
- (v) ABCE

4. The angles of the quadrilateral are



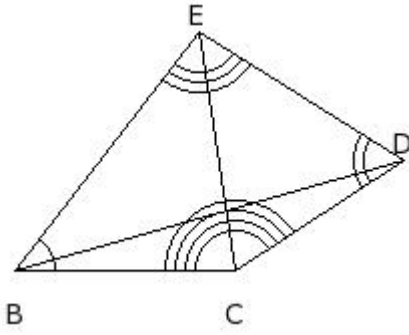
- (i)  $\angle G, \angle H, \angle J, \angle L$
- (ii)  $\angle G, \angle H, \angle J, \angle K$
- (iii)  $\angle G, \angle H, \angle I, \angle J$
- (iv)  $\angle G, \angle H, \angle I, \angle K$
- (v)  $\angle G, \angle H, \angle I, \angle L$

5. The vertices of the quadrilateral are



- (i) C, D, F, H
- (ii) C, D, E, F
- (iii) C, D, E, H
- (iv) C, D, F, G
- (v) C, D, E, G

6. The diagonals of the quadrilateral are



(i)  $\overline{CF}$ ,  $\overline{BE}$

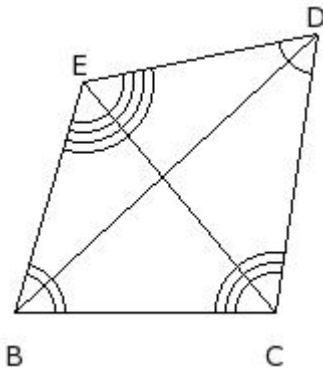
(ii)  $\overline{CE}$ ,  $\overline{BD}$

(iii)  $\overline{DE}$ ,  $\overline{BC}$

(iv)  $\overline{CF}$ ,  $\overline{BD}$

(v)  $\overline{DC}$ ,  $\overline{BE}$

7. The adjacent sides of the quadrilateral are



(i)  $\overline{BC}$  &  $\overline{CE}$ ,  $\overline{CE}$  &  $\overline{EF}$ ,  $\overline{EF}$  &  $\overline{FB}$ ,  $\overline{FB}$  &  $\overline{BC}$

(ii)  $\overline{BC}$  &  $\overline{CD}$ ,  $\overline{CD}$  &  $\overline{DF}$ ,  $\overline{DF}$  &  $\overline{FB}$ ,  $\overline{FB}$  &  $\overline{BC}$

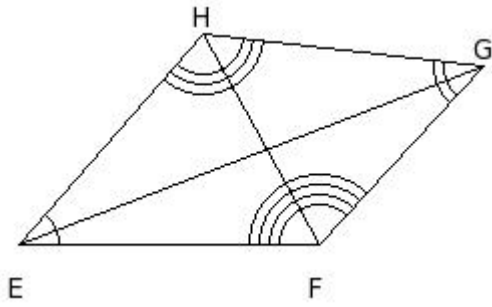
(iii)  $\overline{BD}$  &  $\overline{DE}$ ,  $\overline{DE}$  &  $\overline{EC}$ ,  $\overline{EC}$  &  $\overline{CB}$ ,  $\overline{CB}$  &  $\overline{BD}$

(iv)  $\overline{BC}$  &  $\overline{CD}$ ,  $\overline{CD}$  &  $\overline{DE}$ ,  $\overline{DE}$  &  $\overline{EB}$ ,  $\overline{EB}$  &  $\overline{BC}$

(v)  $\overline{BD}$  &  $\overline{DC}$ ,  $\overline{DC}$  &  $\overline{CE}$ ,  $\overline{CE}$  &  $\overline{EB}$ ,  $\overline{EB}$  &  $\overline{BD}$

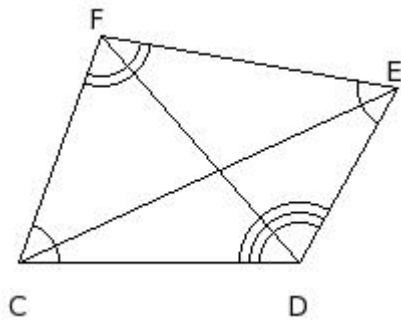
8.

The opposite sides of the quadrilateral are



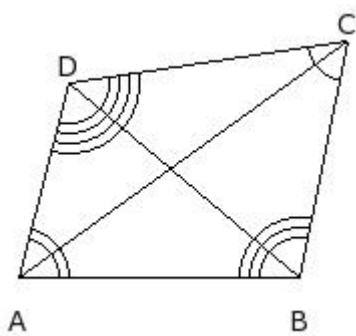
- (i)  $\overline{EF}$  &  $\overline{GH}$  ,  $\overline{FG}$  &  $\overline{HE}$
- (ii)  $\overline{EG}$  &  $\overline{HF}$  ,  $\overline{GH}$  &  $\overline{FE}$
- (iii)  $\overline{EF}$  &  $\overline{HI}$  ,  $\overline{FH}$  &  $\overline{IE}$
- (iv)  $\overline{EF}$  &  $\overline{GI}$  ,  $\overline{FG}$  &  $\overline{IE}$
- (v)  $\overline{EG}$  &  $\overline{FH}$  ,  $\overline{GF}$  &  $\overline{HE}$

9. The adjacent angles of the quadrilateral are



- (i)  $\angle C$  &  $\angle D$  ,  $\angle D$  &  $\angle E$  ,  $\angle E$  &  $\angle F$  ,  $\angle F$  &  $\angle C$
- (ii)  $\angle C$  &  $\angle E$  ,  $\angle E$  &  $\angle D$  ,  $\angle D$  &  $\angle F$  ,  $\angle F$  &  $\angle C$
- (iii)  $\angle C$  &  $\angle E$  ,  $\angle E$  &  $\angle F$  ,  $\angle F$  &  $\angle D$  ,  $\angle D$  &  $\angle C$
- (iv)  $\angle C$  &  $\angle D$  ,  $\angle D$  &  $\angle E$  ,  $\angle E$  &  $\angle G$  ,  $\angle G$  &  $\angle C$
- (v)  $\angle C$  &  $\angle D$  ,  $\angle D$  &  $\angle F$  ,  $\angle F$  &  $\angle G$  ,  $\angle G$  &  $\angle C$

10. The opposite angles of the quadrilateral are



- (i)  $\angle A$  &  $\angle D$  ,  $\angle C$  &  $\angle B$
  - (ii)  $\angle A$  &  $\angle C$  ,  $\angle B$  &  $\angle D$
  - (iii)  $\angle A$  &  $\angle D$  ,  $\angle B$  &  $\angle C$
  - (iv)  $\angle A$  &  $\angle C$  ,  $\angle B$  &  $\angle D$
  - (v)  $\angle A$  &  $\angle B$  ,  $\angle C$  &  $\angle D$
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## Assignment Key

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- 1) (i)
- 2) (v)
- 3) (i)
- 4) (iii)
- 5) (ii)
- 6) (ii)
- 7) (iv)
- 8) (i)
- 9) (i)
- 10) (iv)