EduSahara™ Learning Center Assignment

Grade : Class VII, ICSE
Chapter : Graphs
Name : Graphs of Linear Equations
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1. Find the set of points satisfying the equation $(-8x + 14y + 30) = 0$

   (i) $((-2), (-\frac{23}{7})), ((-1), (-\frac{19}{7})), (0, (-\frac{15}{7})), (1, (-\frac{11}{7})), (2, (-1))$

   (ii) $((-2), (-\frac{23}{7})), ((-1), (-\frac{19}{7})), (0, (-\frac{15}{7})), (1, (-\frac{11}{7})), (4, 1)$

   (iii) $((-2), (-\frac{23}{7})), ((-1), (-\frac{19}{7})), ((-2), (-\frac{29}{7})), (1, (-\frac{11}{7})), (2, (-1))$

   (iv) $((-2), (-\frac{23}{7})), ((-1), (-\frac{19}{7})), (0, (-\frac{15}{7})), (0, (-\frac{4}{7})), (2, (-1))$

   (v) $((-2), (-\frac{23}{7})), ((-1), (-\frac{19}{7})), (1, (-\frac{22}{7})), (1, (-\frac{11}{7})), (2, (-1))$

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2. Find the set of points satisfying the equation $y = (\frac{11}{8}x + \frac{9}{4})$

   (i) $((-2), (-\frac{1}{2})), ((-1), \frac{7}{8}), (0, \frac{9}{4}), (1, \frac{29}{8}), (4, 7)$

   (ii) $((-2), (-\frac{1}{2})), ((-1), \frac{7}{8}), (0, \frac{9}{4}), (1, \frac{29}{8}), (2, 5)$

   (iii) $((-2), (-\frac{1}{2})), ((-1), \frac{7}{8}), (1, \frac{5}{4}), (1, \frac{29}{8}), (2, 5)$

   (iv) $((-2), (-\frac{1}{2})), ((-1), \frac{7}{8}), (0, \frac{9}{4}), (0, \frac{37}{8}), (2, 5)$

   (v) $((-2), (-\frac{1}{2})), ((-1), \frac{7}{8}), ((-2), \frac{1}{4}), (1, \frac{29}{8}), (2, 5)$

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3. Find the set of points satisfying the equation $x = (\frac{5}{6}y - \frac{37}{6})$

   (i) $((-2), 5), ((-1), \frac{31}{5}), (1, \frac{32}{5}), (1, \frac{43}{5}), (2, \frac{49}{5})$

   (ii) $((-2), 5), ((-1), \frac{31}{5}), ((-2), \frac{27}{5}), (1, \frac{43}{5}), (2, \frac{49}{5})$

   (iii) $((-2), 5), ((-1), \frac{31}{5}), (0, \frac{37}{5}), (1, \frac{43}{5}), (2, \frac{49}{5})$

   (iv) $((-2), 5), ((-1), \frac{31}{5}), (0, \frac{37}{5}), (1, \frac{43}{5}), (4, \frac{59}{5})$

   (v) $((-2), 5), ((-1), \frac{31}{5}), (0, \frac{37}{5}), (0, \frac{48}{5}), (2, \frac{49}{5})$

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4. Find the set of points satisfying the equation $y = \frac{9}{5}x$

(i) $((-2),(-\frac{18}{5})),((-1),(-\frac{9}{5})),(0,0),(0,\frac{14}{5}),(2,\frac{18}{5})$

(ii) $((-2),(-\frac{18}{5})),((-1),(-\frac{9}{5})),(0,0),(1,\frac{9}{5}),(2,\frac{18}{5})$

(iii) $((-2),(-\frac{18}{5})),((-1),(-\frac{9}{5})),(1,(-1)),(1,\frac{9}{5}),(2,\frac{18}{5})$

(iv) $((-2),(-\frac{18}{5})),((-1),(-\frac{9}{5})),(0,0),(1,\frac{9}{5}),(4,\frac{28}{5})$

(v) $((-2),(-\frac{18}{5})),((-1),(-\frac{9}{5})),((-2),(-2)),(1,\frac{9}{5}),(2,\frac{18}{5})$

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5. Find the set of points satisfying the equation $(3x+4y-2)=0$

(i) $((-2),2),((-1),\frac{5}{4}),(1,(-\frac{1}{2})),(1,(-\frac{1}{4})),(2,(-1))$

(ii) $((-2),2),((-1),\frac{5}{4}),(0,\frac{1}{2}),(1,(-\frac{1}{4})),(2,(-1))$

(iii) $((-2),2),((-1),\frac{5}{4}),(0,\frac{1}{2}),(1,(-\frac{1}{4})),(4,1)$

(iv) $((-2),2),((-1),\frac{5}{4}),(0,\frac{1}{2}),(0,\frac{3}{4}),(2,(-1))$

(v) $((-2),2),((-1),\frac{5}{4}),((-2),(-\frac{3}{2})),(1,(-\frac{1}{4})),(2,(-1))$

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6. Find the set of points satisfying the equation $y = (-4)$

(i) $((-2),(-4)),((-1),(-4)),((-2),(-6)),(1,(-4)),(2,(-4))$

(ii) $((-2),(-4)),((-1),(-4)),(0,(-4)),(1,(-4)),(2,(-4))$

(iii) $((-2),(-4)),((-1),(-4)),(1,(-5)),(1,(-4)),(2,(-4))$

(iv) $((-2),(-4)),((-1),(-4)),(0,(-4)),(1,(-4)),(4,(-2))$

(v) $((-2),(-4)),((-1),(-4)),(0,(-4)),(0,(-3)),(2,(-4))$

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7. Find the set of points satisfying the equation $x = 7$

(i) $(7,(-2)),(7,(-1)),(8,(-1)),(7,1),(7,2)$

(ii) $(7,(-2)),(7,(-1)),(7,0),(7,1),(7,2)$

(iii) $(7,(-2)),(7,(-1)),(7,0),(6,2),(7,2)$

(iv) $(7,(-2)),(7,(-1)),(5,(-2)),(7,1),(7,2)$

(v) $(7,(-2)),(7,(-1)),(7,0),(7,1),(9,4)$

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8. Which of the following equations satisfy the given points $((-2),(-\frac{1}{7})),((-1),(-\frac{12}{7})),(0,(-\frac{23}{7})),(1,(-\frac{34}{7})),(2,(-\frac{45}{7}))$?

(i) $(-11x-7y-23)=0$

(ii) $y=(-5)$

(iii) $y=(-\frac{11}{7}x-\frac{46}{7})$

(iv) $x=(\frac{11}{7}y+\frac{48}{7})$

(v) $x=(-1)$

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9. Which of the following equations satisfy the given points $((-2),(-10)),((-1),(-\frac{21}{2})),(0,(-11)),(1,(-\frac{23}{2})),(2,(-12))$?

(i) $y=(-9)$

(ii) $x=(-4)$

(iii) $x=(\frac{1}{2}y+\frac{1}{2})$

(iv) $y=(-\frac{1}{2}x-11)$

(v) $(-7x-14y+35)=0$

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10. Which of the following equations satisfy the given points $((-2),5),((-1),\frac{11}{4}),(0,\frac{1}{2}),(1,(-\frac{7}{4})),(2,(-4))$?

(i) $x=(\frac{10}{11}y-\frac{39}{11})$

(ii) $x=(-9)$

(iii) $y=(-\frac{10}{11}x-\frac{156}{11})$

(iv) $y=(-6)$

(v) $(9x+4y-2)=0$

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11. Which of the following equations satisfy the given points $((-2), 9), ((-1), 9), (0, 9), (1, 9), (2, 9)$?

(i) $(-9x - 9y + 45) = 0$

(ii) $y = 9$

(iii) $x = (y - 18)$

(iv) $x = (-9)$

(v) $(3x + 4y - 2) = 0$

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12. Which of the following equations satisfy the given points $(9, (-2)), (9, (-1)), (9, 0), (9, 1), (9, 2)$?

(i) $x = 9$

(ii) $y = (-1)$

(iii) $x = (\frac{7}{3}y + \frac{34}{3})$

(iv) $(7x + 12y - 4) = 0$

(v) $(-7x - 3y - 11) = 0$

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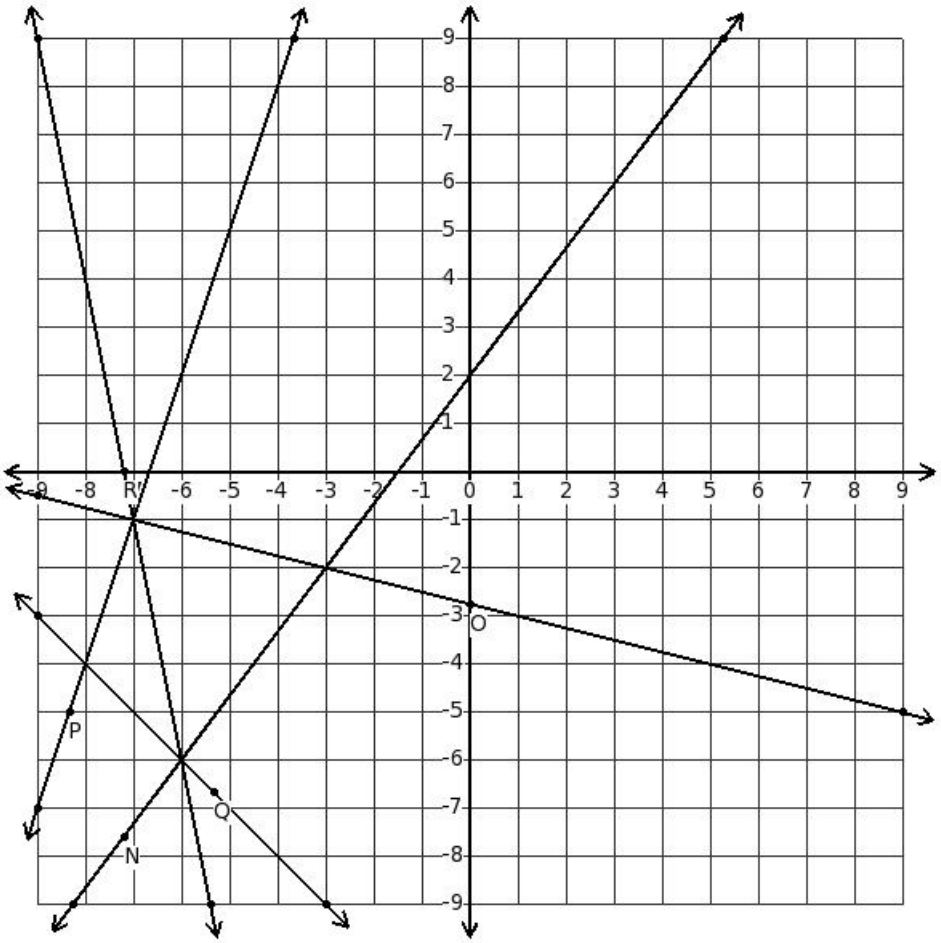
13. Which of the displayed lines represent the equation $(4x - 3y + 6) = 0$?



(i) line with point P

(ii) line with point Q

(iii) line with point R

(iv) line with point N

(v) line with point O

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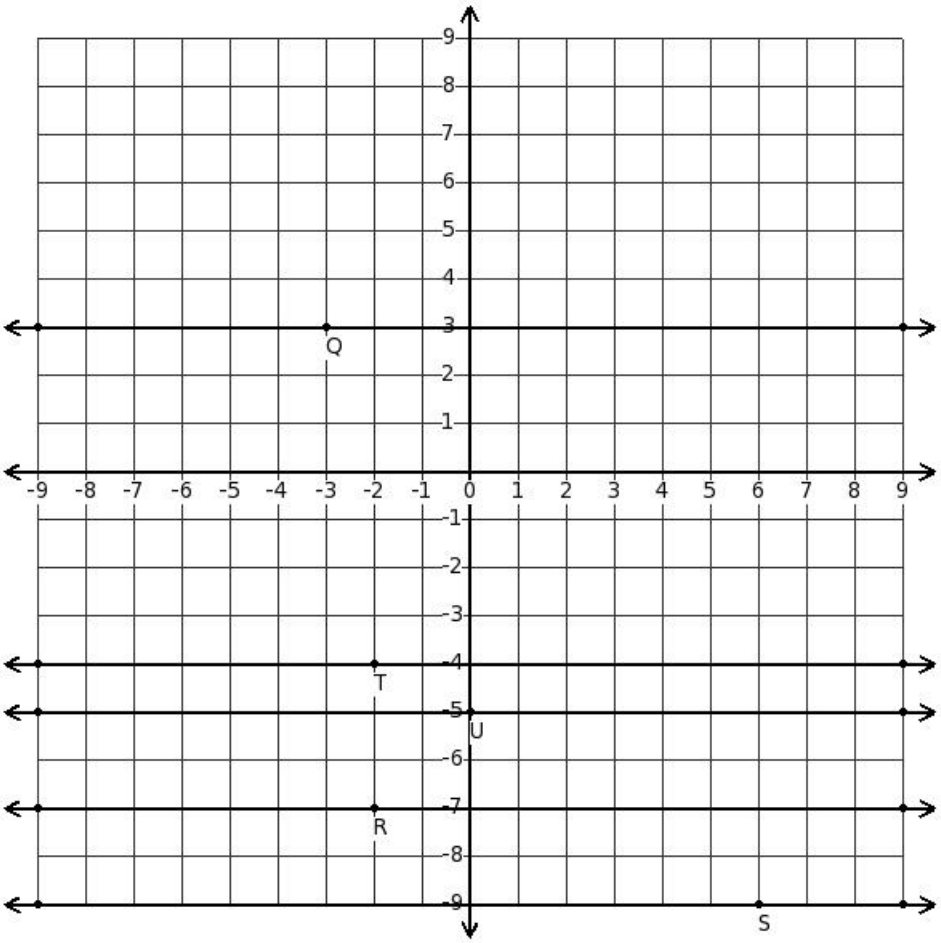
14. Which of the displayed lines represent the equation $y = 3$



(i) line with point Q

(ii) line with point S

(iii) line with point U

(iv) line with point T

(v) line with point R

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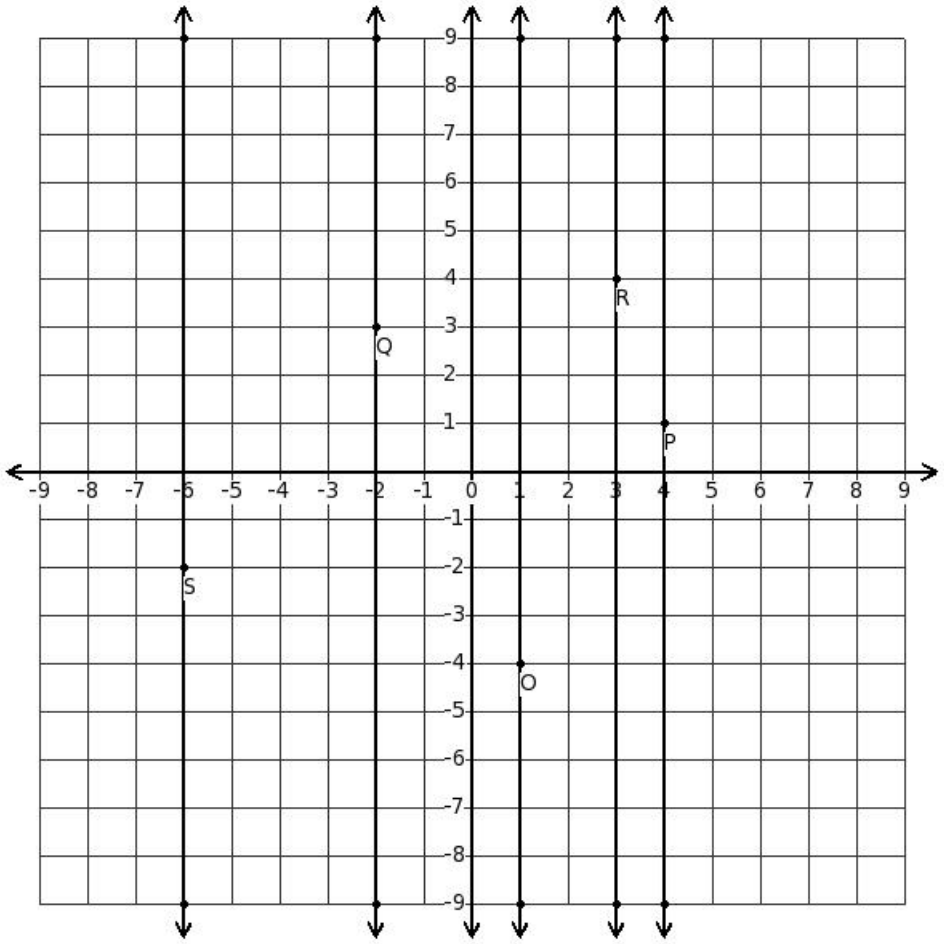
15. Which of the displayed lines represent the equation $x = 1$



(i) line with point R

(ii) line with point P

(iii) line with point S

(iv) line with point Q

(v) line with point O

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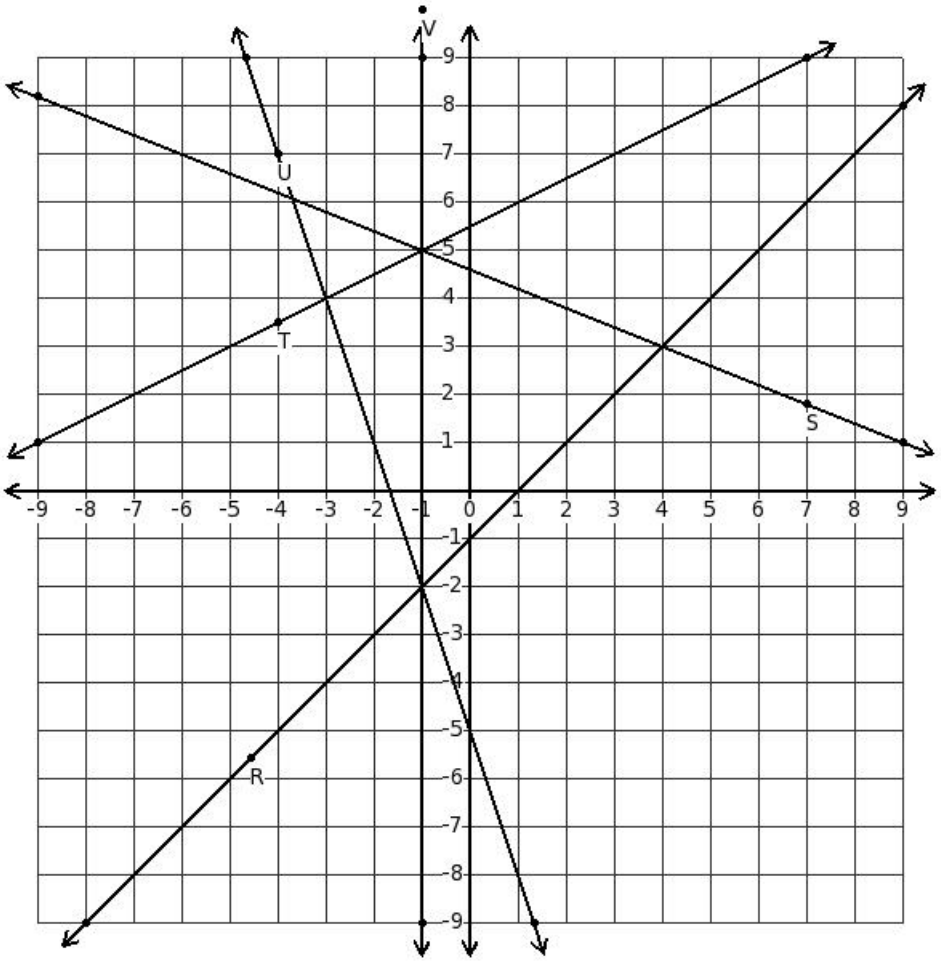
16. Which of the displayed lines represent the equation $y = (x - 1)$



(i) line with point T

(ii) line with point V

(iii) line with point R

(iv) line with point U

(v) line with point S

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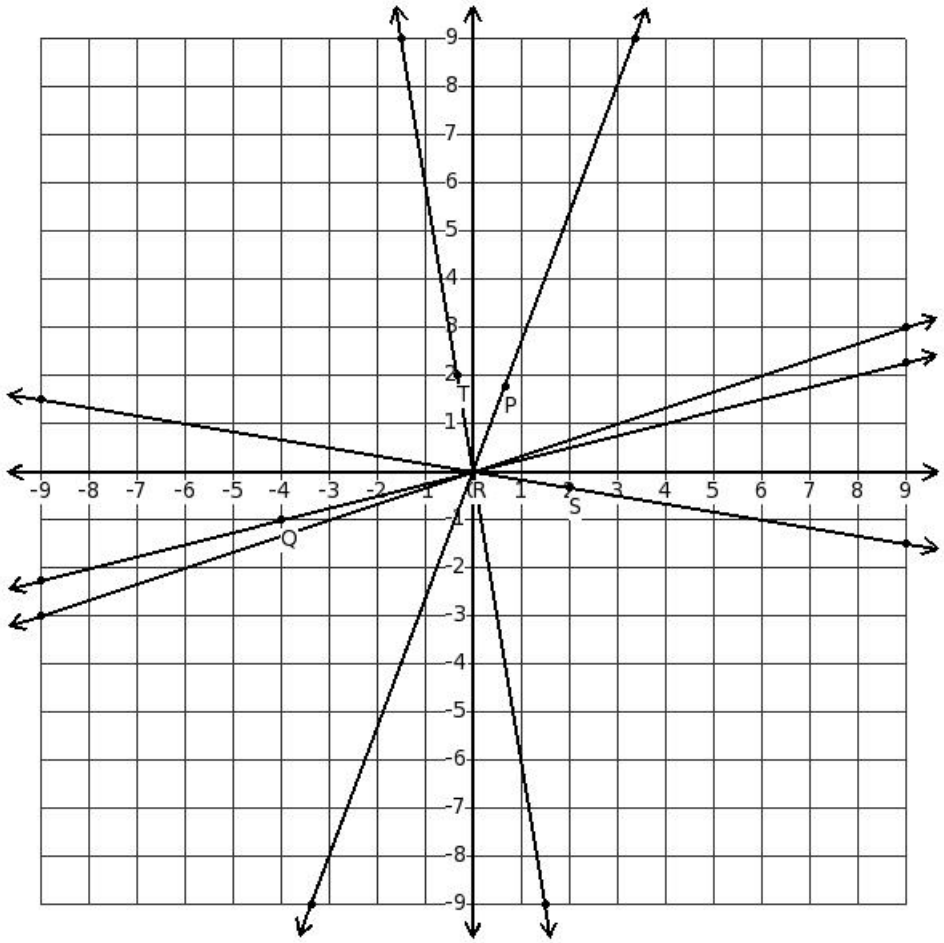
17. Which of the displayed lines represent the equation $y = \frac{8}{3}x$



(i) line with point R

(ii) line with point Q

(iii) line with point P

(iv) line with point S

(v) line with point T

Assignment Key

1) (i)
2) (ii)
3) (iii)
4) (ii)
5) (ii)
6) (ii)
7) (ii)
8) (i)
9) (iv)
10) (v)
11) (ii)
12) (i)
13) (iv)
14) (i)
15) (v)
16) (iii)
17) (iii)