

EduSahara™ Learning Center Assignment

Grade : Class VIII, ICSE
Chapter : Coordinate System and Graphs
Name : Graph of a Linear Equation in Two Variables
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1. Find the set of points satisfying the equation $(-3x - 2y - 17) = 0$

- (i) $((-2), (-\frac{11}{2})), ((-1), (-7)), ((-2), (-\frac{21}{2})), (1, (-10)), (2, (-\frac{23}{2}))$
 - (ii) $((-2), (-\frac{11}{2})), ((-1), (-7)), (0, (-\frac{17}{2})), (0, (-9)), (2, (-\frac{23}{2}))$
 - (iii) $((-2), (-\frac{11}{2})), ((-1), (-7)), (0, (-\frac{17}{2})), (1, (-10)), (4, (-\frac{19}{2}))$
 - (iv) $((-2), (-\frac{11}{2})), ((-1), (-7)), (0, (-\frac{17}{2})), (1, (-10)), (2, (-\frac{23}{2}))$
 - (v) $((-2), (-\frac{11}{2})), ((-1), (-7)), (1, (-\frac{19}{2})), (1, (-10)), (2, (-\frac{23}{2}))$
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2. Find the set of points satisfying the equation $y = (\frac{12}{17}x - \frac{28}{17})$

- (i) $((-2), (-\frac{52}{17})), ((-1), (-\frac{40}{17})), (0, (-\frac{28}{17})), (1, (-\frac{16}{17})), (2, (-\frac{4}{17}))$
 - (ii) $((-2), (-\frac{52}{17})), ((-1), (-\frac{40}{17})), (1, (-\frac{45}{17})), (1, (-\frac{16}{17})), (2, (-\frac{4}{17}))$
 - (iii) $((-2), (-\frac{52}{17})), ((-1), (-\frac{40}{17})), (0, (-\frac{28}{17})), (1, (-\frac{16}{17})), (4, \frac{30}{17})$
 - (iv) $((-2), (-\frac{52}{17})), ((-1), (-\frac{40}{17})), (0, (-\frac{28}{17})), (0, \frac{1}{17}), (2, (-\frac{4}{17}))$
 - (v) $((-2), (-\frac{52}{17})), ((-1), (-\frac{40}{17})), ((-2), (-\frac{62}{17})), (1, (-\frac{16}{17})), (2, (-\frac{4}{17}))$
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3. Find the set of points satisfying the equation $x = (-\frac{3}{10}y - \frac{67}{10})$

- (i) $((-2), (-\frac{47}{3})), ((-1), (-19)), (0, (-\frac{67}{3})), (1, (-\frac{77}{3})), (2, (-29))$
 - (ii) $((-2), (-\frac{47}{3})), ((-1), (-19)), ((-2), (-\frac{73}{3})), (1, (-\frac{77}{3})), (2, (-29))$
 - (iii) $((-2), (-\frac{47}{3})), ((-1), (-19)), (0, (-\frac{67}{3})), (0, (-\frac{74}{3})), (2, (-29))$
 - (iv) $((-2), (-\frac{47}{3})), ((-1), (-19)), (1, (-\frac{70}{3})), (1, (-\frac{77}{3})), (2, (-29))$
 - (v) $((-2), (-\frac{47}{3})), ((-1), (-19)), (0, (-\frac{67}{3})), (1, (-\frac{77}{3})), (4, (-27))$
-

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

- (i) $((-2), 1\frac{7}{11}), ((-1), \frac{9}{11}), (0,0), (1, (-\frac{9}{11})), (2, (-\frac{18}{11}))$
 - (ii) $((-2), 1\frac{7}{11}), ((-1), \frac{9}{11}), (0,0), (1, (-\frac{9}{11})), (4, \frac{4}{11})$
 - (iii) $((-2), 1\frac{7}{11}), ((-1), \frac{9}{11}), (1, (-1)), (1, (-\frac{9}{11})), (2, (-\frac{18}{11}))$
 - (iv) $((-2), 1\frac{7}{11}), ((-1), \frac{9}{11}), ((-2), (-2)), (1, (-\frac{9}{11})), (2, (-\frac{18}{11}))$
 - (v) $((-2), 1\frac{7}{11}), ((-1), \frac{9}{11}), (0,0), (0, \frac{2}{11}), (2, (-\frac{18}{11}))$
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5. Find the set of points satisfying the equation $(4x + 3y - 2) = 0$

- (i) $((-2), 3\frac{1}{3}), ((-1), 2), (1, (-\frac{1}{3})), (1, (-\frac{2}{3})), (2, (-2))$
 - (ii) $((-2), 3\frac{1}{3}), ((-1), 2), (0, \frac{2}{3}), (0, \frac{1}{3}), (2, (-2))$
 - (iii) $((-2), 3\frac{1}{3}), ((-1), 2), (0, \frac{2}{3}), (1, (-\frac{2}{3})), (2, (-2))$
 - (iv) $((-2), 3\frac{1}{3}), ((-1), 2), ((-2), (-\frac{4}{3})), (1, (-\frac{2}{3})), (2, (-2))$
 - (v) $((-2), 3\frac{1}{3}), ((-1), 2), (0, \frac{2}{3}), (1, (-\frac{2}{3})), (4, 0)$
-

6. Find the set of points satisfying the equation $y = (-1)$

- (i) $((-2), (-1)), ((-1), (-1)), (0, (-1)), (1, (-1)), (4, 1)$
 - (ii) $((-2), (-1)), ((-1), (-1)), ((-2), (-3)), (1, (-1)), (2, (-1))$
 - (iii) $((-2), (-1)), ((-1), (-1)), (1, (-2)), (1, (-1)), (2, (-1))$
 - (iv) $((-2), (-1)), ((-1), (-1)), (0, (-1)), (0,0), (2, (-1))$
 - (v) $((-2), (-1)), ((-1), (-1)), (0, (-1)), (1, (-1)), (2, (-1))$
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7. Find the set of points satisfying the equation $x = (-4)$

- (i) $((-4), (-2)), ((-4), (-1)), ((-6), (-2)), ((-4), 1), ((-4), 2)$
- (ii) $((-4), (-2)), ((-4), (-1)), ((-4), 0), ((-5), 2), ((-4), 2)$
- (iii) $((-4), (-2)), ((-4), (-1)), ((-4), 0), ((-4), 1), ((-2), 4)$
- (iv) $((-4), (-2)), ((-4), (-1)), ((-3), (-1)), ((-4), 1), ((-4), 2)$

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

Which of the following equations satisfy the given points

8. $((-2), \frac{1}{3}), ((-1), (-\frac{5}{9})), (0, (-\frac{13}{9})), (1, (-\frac{7}{3})), (2, (-\frac{29}{9}))$?

(i) $x = (\frac{8}{9}y - \frac{29}{9})$

(ii) $y = (-2)$

(iii) $(-8x - 9y - 13) = 0$

(iv) $(2x + 5y - 1) = 0$

(v) $x = (-5)$

Which of the following equations satisfy the given points

9. $((-2), 8\frac{5}{7}), ((-1), 7\frac{4}{7}), (0, 6\frac{3}{7}), (1, 5\frac{2}{7}), (2, 4\frac{1}{7})$?

(i) $y = (-\frac{8}{7}x + \frac{45}{7})$

(ii) $y = 3$

(iii) $x = 3$

(iv) $x = (\frac{8}{7}y - \frac{3}{7})$

(v) $(-8x - 7y + 27) = 0$

Which of the following equations satisfy the given points

10. $((-2), 3\frac{1}{2}), ((-1), 2), (0, \frac{1}{2}), (1, (-1)), (2, (-\frac{5}{2}))$?

(i) $x = (-4)$

(ii) $(3x + 2y - 1) = 0$

(iii) $x = (\frac{5}{6}y - \frac{29}{6})$

(iv) $(-10x - 12y + 18) = 0$

(v) $y = (-\frac{5}{6}x - \frac{7}{3})$

Which of the following equations satisfy the given points

11. $((-2), 9), ((-1), 9), (0, 9), (1, 9), (2, 9) ?$

(i) $y = 9$

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

(iii) $(-7x - 10y - 5) = 0$

(iv) $y = (-\frac{7}{10}x + 9)$

(v) $x = 0$

Which of the following equations satisfy the given points

12. $(9, (-2)), (9, (-1)), (9, 0), (9, 1), (9, 2) ?$

(i) $x = 9$

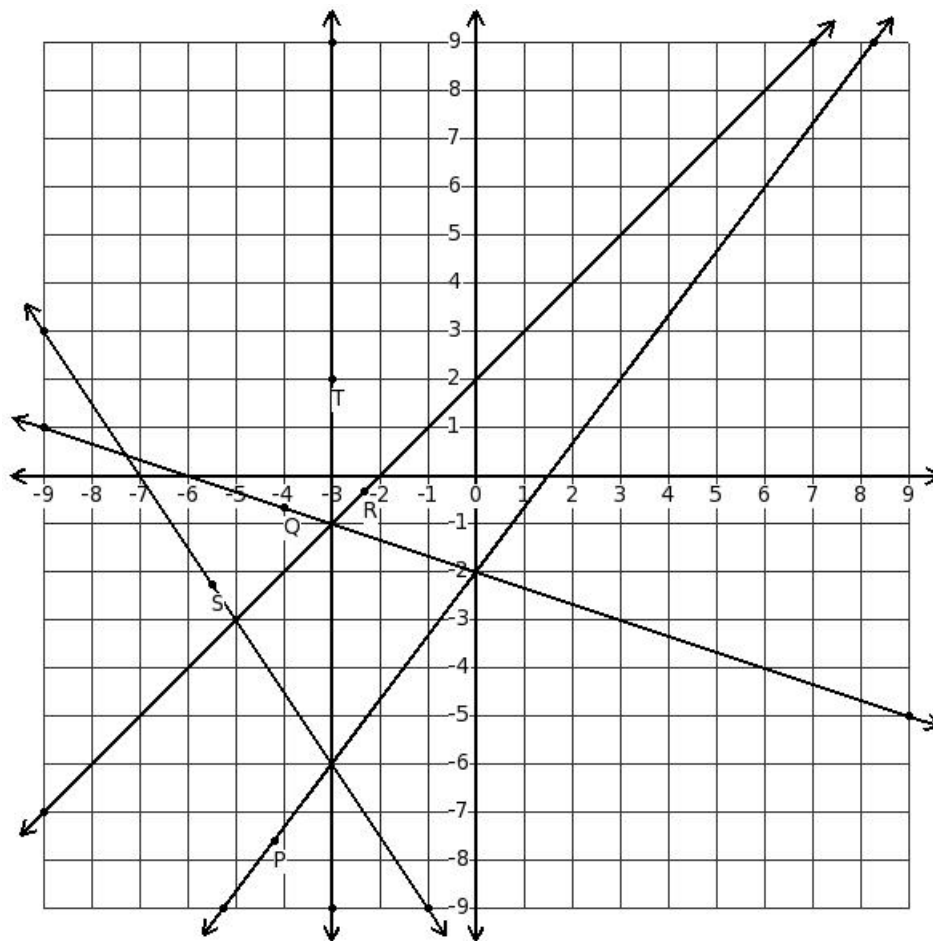
(ii) $x = (\frac{6}{7}y + \frac{39}{7})$

(iii) $y = (-\frac{6}{7}x + \frac{82}{7})$

(iv) $(-12x - 14y + 10) = 0$

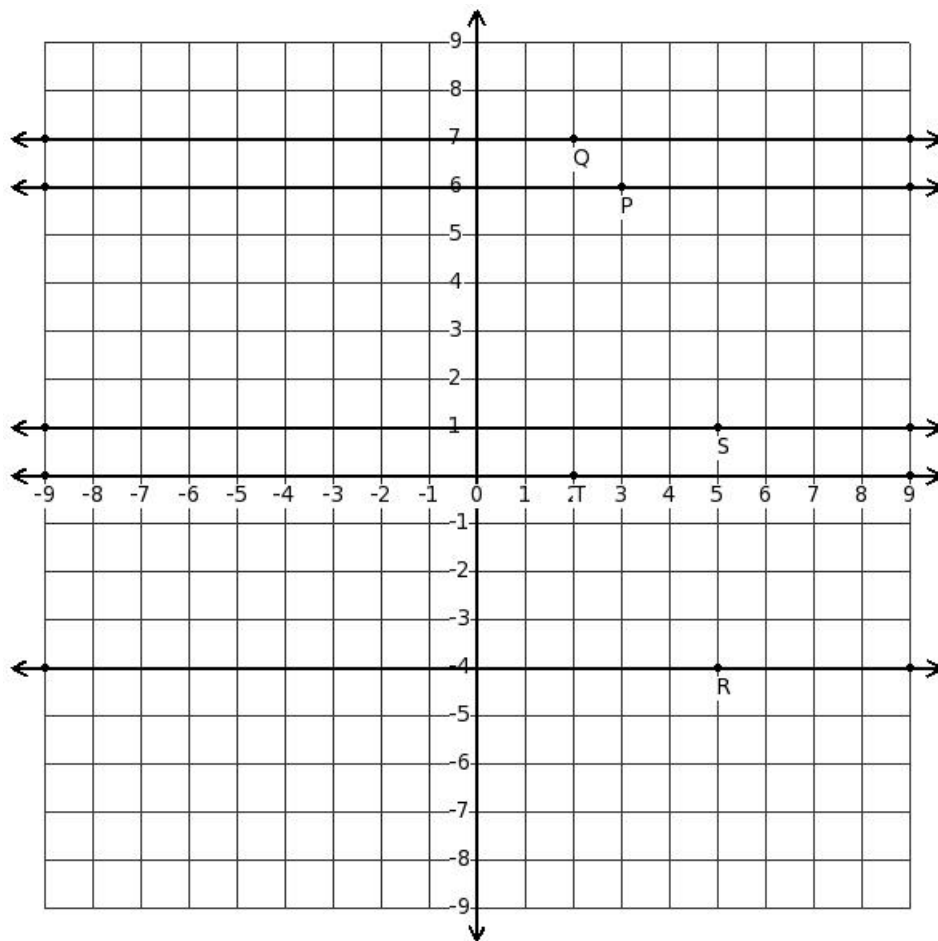
(v) $(16x + 9y - 8) = 0$

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



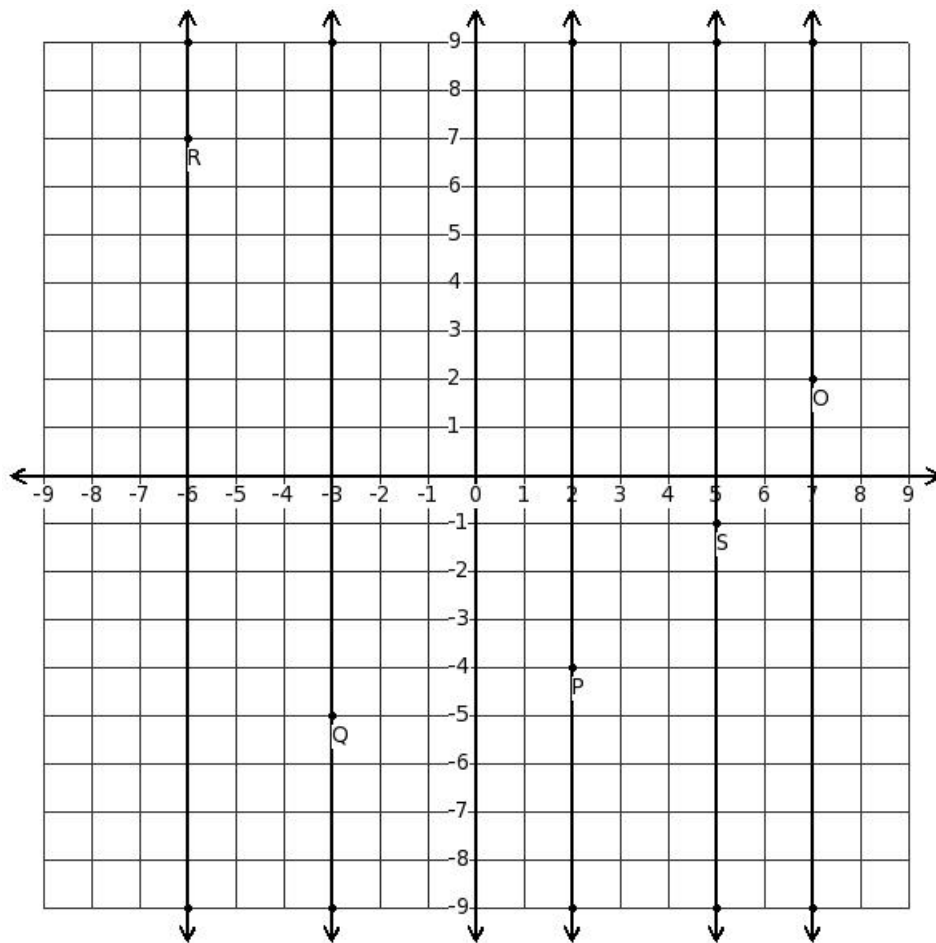
- (i) line with point R
- (ii) line with point P
- (iii) line with point Q
- (iv) line with point S
- (v) line with point T

14. Which of the displayed lines represent the equation $y = 6$



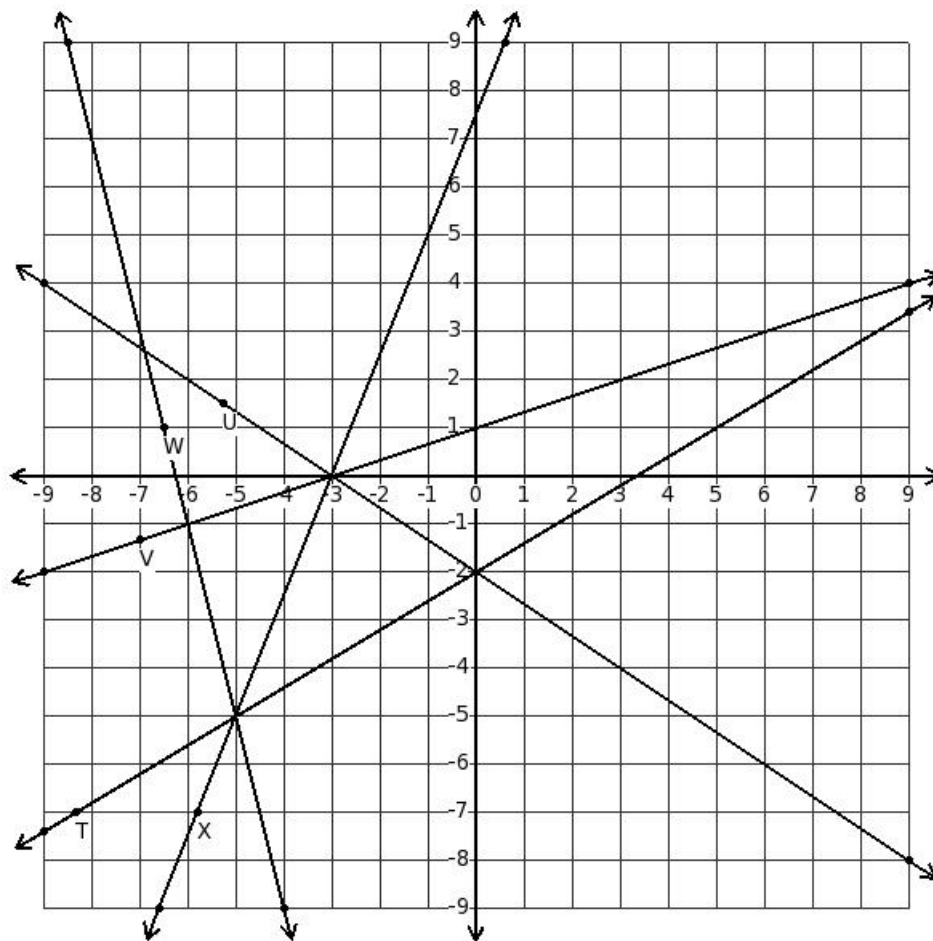
- (i) line with point T
- (ii) line with point Q
- (iii) line with point R
- (iv) line with point P
- (v) line with point S

15. Which of the displayed lines represent the equation $x = 7$



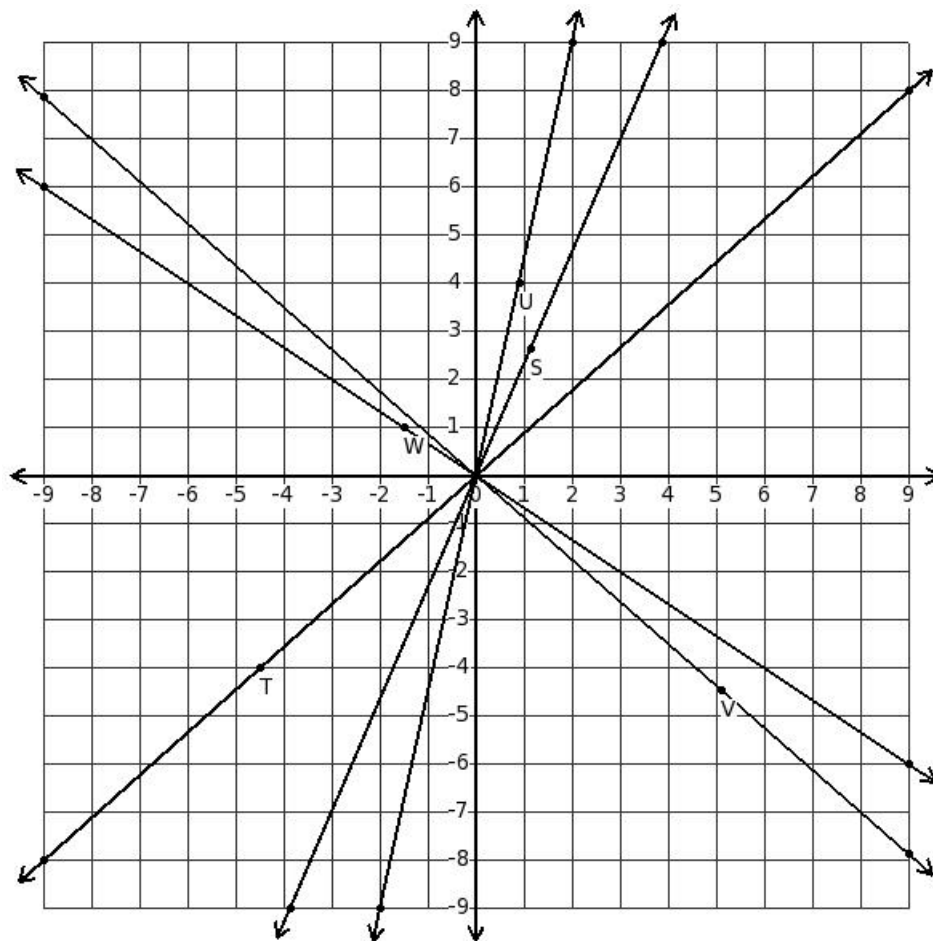
- (i) line with point S
- (ii) line with point R
- (iii) line with point P
- (iv) line with point Q
- (v) line with point O

16. Which of the displayed lines represent the equation $y = \left(\frac{3}{5}x - 2\right)$



- (i) line with point T
- (ii) line with point U
- (iii) line with point W
- (iv) line with point V
- (v) line with point X

17. Which of the displayed lines represent the equation $y = \frac{7}{3}x$



- (i) line with point S
 - (ii) line with point W
 - (iii) line with point U
 - (iv) line with point V
 - (v) line with point T
-

Assignment Key

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