

EduSahara™ Learning Center Assignment

Grade : Class X, SSC

Chapter : Polynomials

Name : Graphical Representation of Linear Polynomial

1. Find the set of points satisfying the equation $(-3x + 14y - 1) = 0$

- (i) $((-2), (-\frac{5}{14})), ((-1), (-\frac{1}{7})), (0, \frac{1}{14}), (1, \frac{2}{7}), (4, \frac{5}{2})$
- (ii) $((-2), (-\frac{5}{14})), ((-1), (-\frac{1}{7})), (0, \frac{1}{14}), (1, \frac{2}{7}), (2, \frac{1}{2})$
- (iii) $((-2), (-\frac{5}{14})), ((-1), (-\frac{1}{7})), (1, (-\frac{13}{14})), (1, \frac{2}{7}), (2, \frac{1}{2})$
- (iv) $((-2), (-\frac{5}{14})), ((-1), (-\frac{1}{7})), (0, \frac{1}{14}), (0, \frac{9}{7}), (2, \frac{1}{2})$
- (v) $((-2), (-\frac{5}{14})), ((-1), (-\frac{1}{7})), ((-2), (-\frac{27}{14})), (1, \frac{2}{7}), (2, \frac{1}{2})$

2. Find the set of points satisfying the equation $y = (-\frac{5}{4}x - \frac{41}{4})$

- (i) $((-2), (-\frac{31}{4})), ((-1), (-9)), (0, (-\frac{41}{4})), (0, (-\frac{21}{2})), (2, (-\frac{51}{4}))$
- (ii) $((-2), (-\frac{31}{4})), ((-1), (-9)), (0, (-\frac{41}{4})), (1, (-\frac{23}{2})), (2, (-\frac{51}{4}))$
- (iii) $((-2), (-\frac{31}{4})), ((-1), (-9)), (0, (-\frac{41}{4})), (1, (-\frac{23}{2})), (4, (-\frac{43}{4}))$
- (iv) $((-2), (-\frac{31}{4})), ((-1), (-9)), (1, (-\frac{45}{4})), (1, (-\frac{23}{2})), (2, (-\frac{51}{4}))$
- (v) $((-2), (-\frac{31}{4})), ((-1), (-9)), ((-2), (-\frac{49}{4})), (1, (-\frac{23}{2})), (2, (-\frac{51}{4}))$

3. Find the set of points satisfying the equation $y = (-\frac{10}{11}x)$

- (i) $((-2), \frac{20}{11}), ((-1), \frac{10}{11}), (0,0), (1, (-\frac{10}{11})), (4, \frac{2}{11})$
- (ii) $((-2), \frac{20}{11}), ((-1), \frac{10}{11}), ((-2), (-2)), (1, (-\frac{10}{11})), (2, (-\frac{20}{11}))$
- (iii) $((-2), \frac{20}{11}), ((-1), \frac{10}{11}), (0,0), (0, \frac{1}{11}), (2, (-\frac{20}{11}))$
- (iv) $((-2), \frac{20}{11}), ((-1), \frac{10}{11}), (0,0), (1, (-\frac{10}{11})), (2, (-\frac{20}{11}))$
- (v) $((-2), \frac{20}{11}), ((-1), \frac{10}{11}), (1, (-1)), (1, (-\frac{10}{11})), (2, (-\frac{20}{11}))$

4. Find the set of points satisfying the equation $(45x + 64y - 40) = 0$

- (i) $((-2), \frac{65}{32}), ((-1), \frac{85}{64}), (0, \frac{5}{8}), (1, (-\frac{5}{64})), (2, (-\frac{25}{32}))$
- (ii) $((-2), \frac{65}{32}), ((-1), \frac{85}{64}), (1, (-\frac{3}{8})), (1, (-\frac{5}{64})), (2, (-\frac{25}{32}))$
- (iii) $((-2), \frac{65}{32}), ((-1), \frac{85}{64}), (1, \frac{5}{8}), (1, \frac{5}{64}), (2, \frac{39}{32})$

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

$$(iv) ((-2), \frac{65}{32}), ((-1), \frac{85}{64}), (0, \frac{5}{8}), (0, \frac{59}{64}), (2, (-\frac{25}{32}))$$

$$(v) ((-2), \frac{65}{32}), ((-1), \frac{85}{64}), ((-2), (-\frac{11}{8})), (1, (-\frac{5}{64})), (2, (-\frac{25}{32}))$$

5. Find the set of points satisfying the equation $y = 0$

$$(i) ((-2), 0), ((-1), 0), (1, (-1)), (1, 0), (2, 0)$$

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

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

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

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

6. Find the set of points satisfying the equation $x = (-5)$

$$(i) ((-5), (-2)), ((-5), (-1)), ((-5), 0), ((-5), 1), ((-3), 4)$$

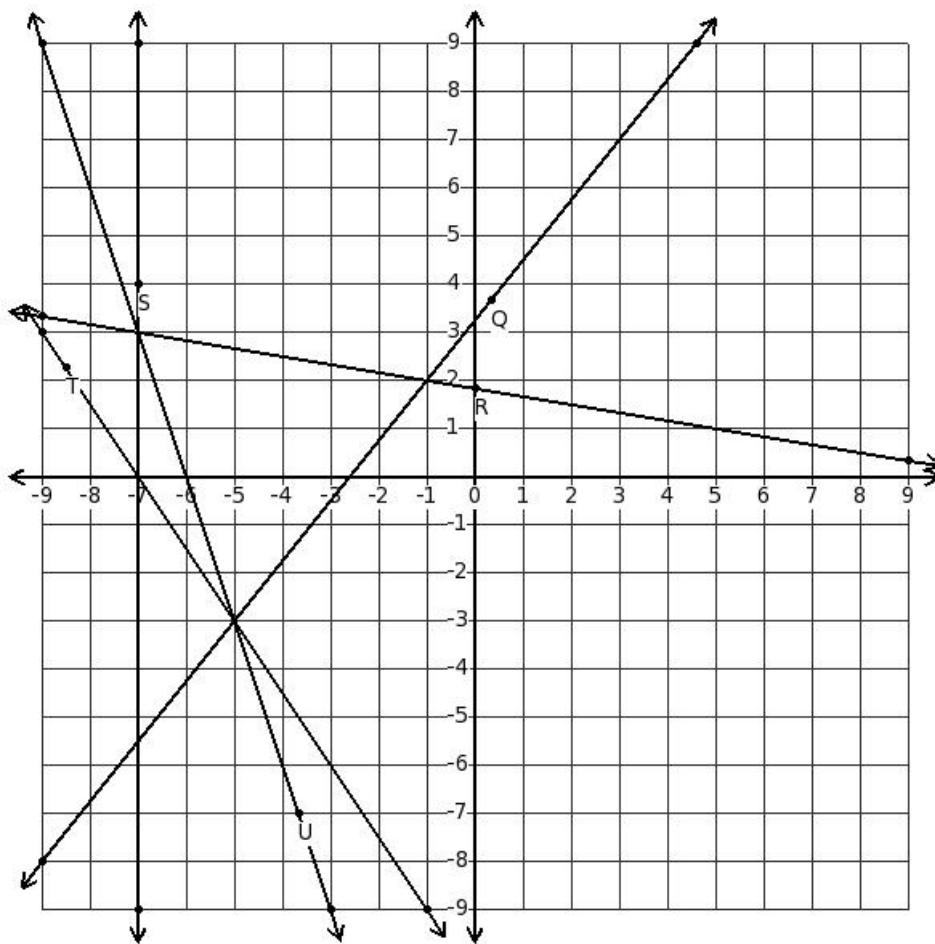
$$(ii) ((-5), (-2)), ((-5), (-1)), ((-5), 0), ((-6), 2), ((-5), 2)$$

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

$$(iv) ((-5), (-2)), ((-5), (-1)), ((-5), 0), ((-5), 1), ((-5), 2)$$

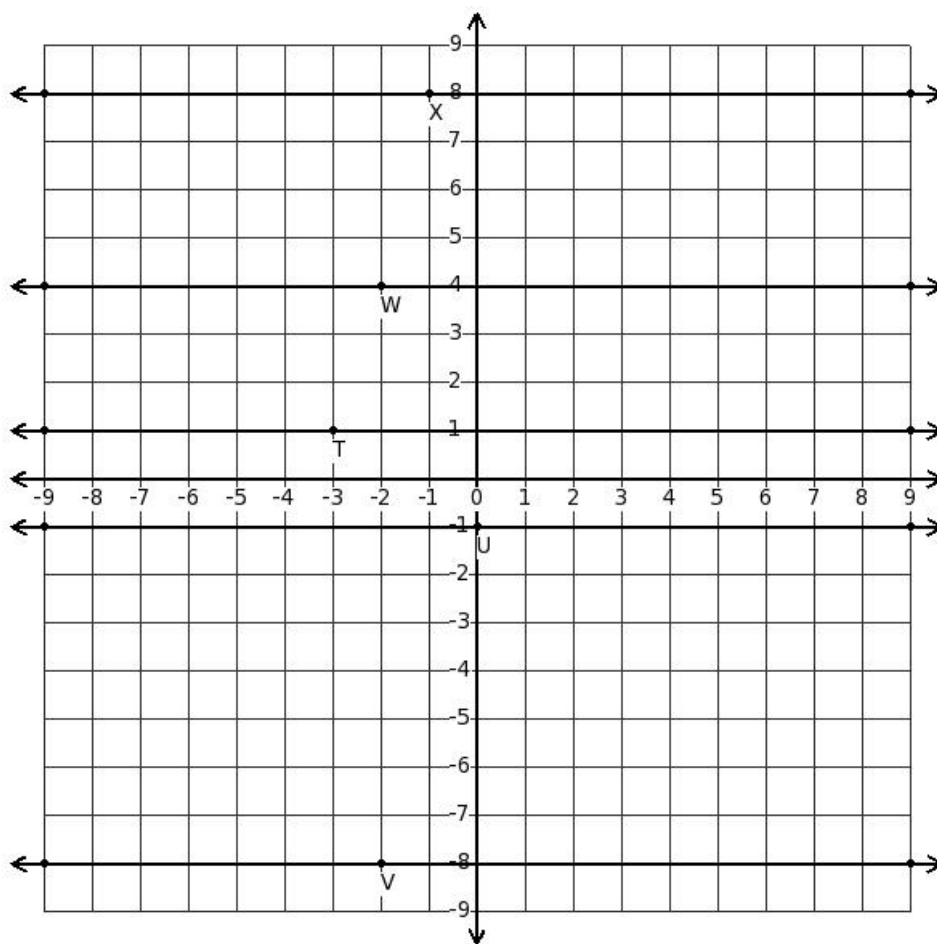
$$(v) ((-5), (-2)), ((-5), (-1)), ((-4), (-1)), ((-5), 1), ((-5), 2)$$

7. Which of the displayed lines represent the equation $(5x - 4y + 13) = 0$?



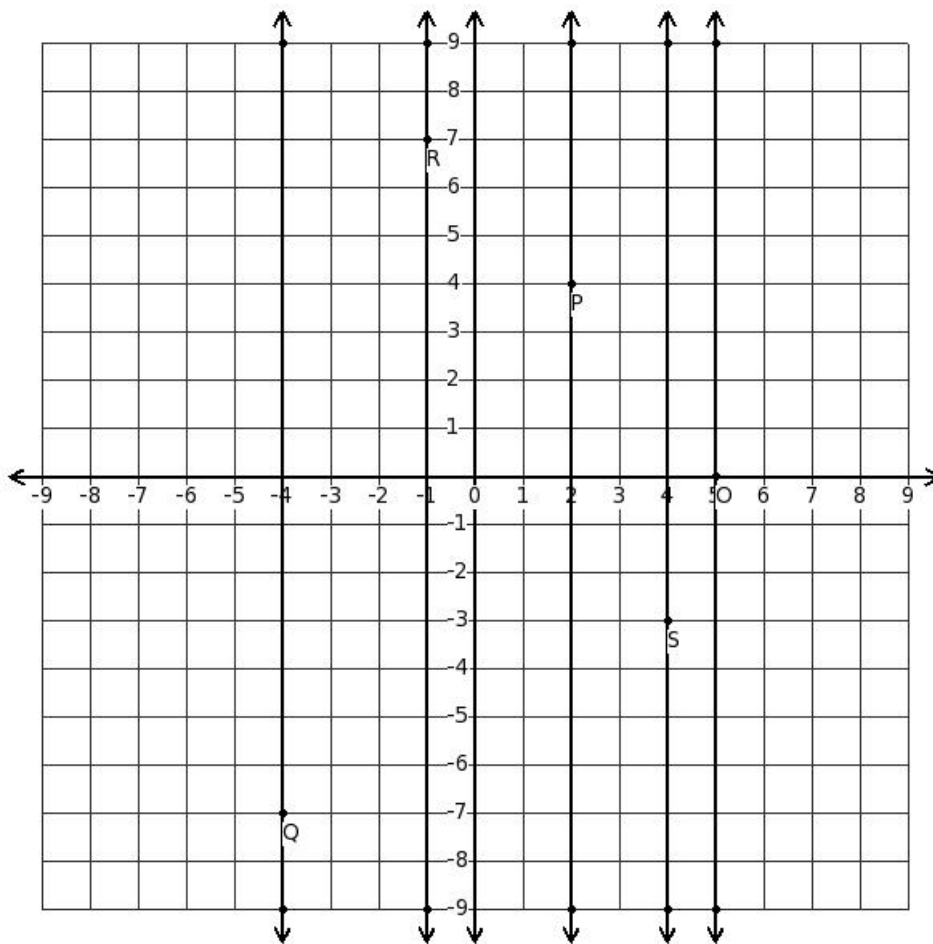
- (i) line with point S
- (ii) line with point T
- (iii) line with point U
- (iv) line with point R
- (v) line with point Q

8. Which of the displayed lines represent the equation $y = 1$



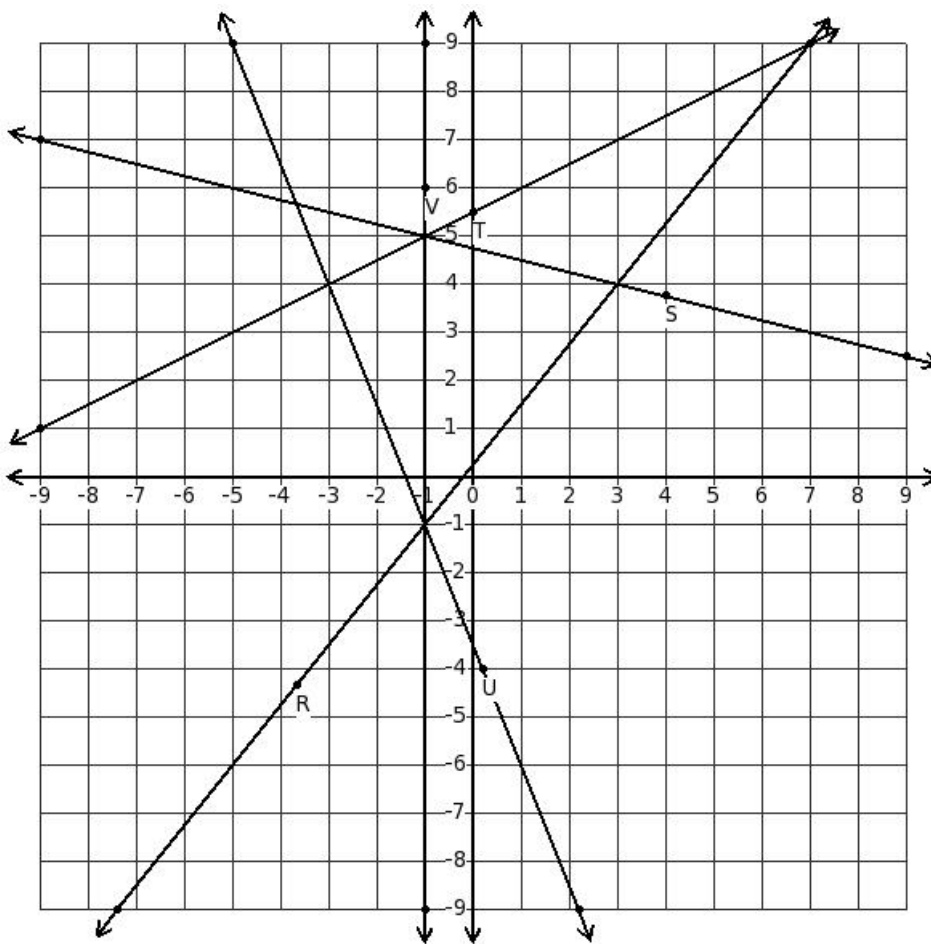
- (i) line with point U
- (ii) line with point W
- (iii) line with point X
- (iv) line with point V
- (v) line with point T

9. Which of the displayed lines represent the equation $x = 5$



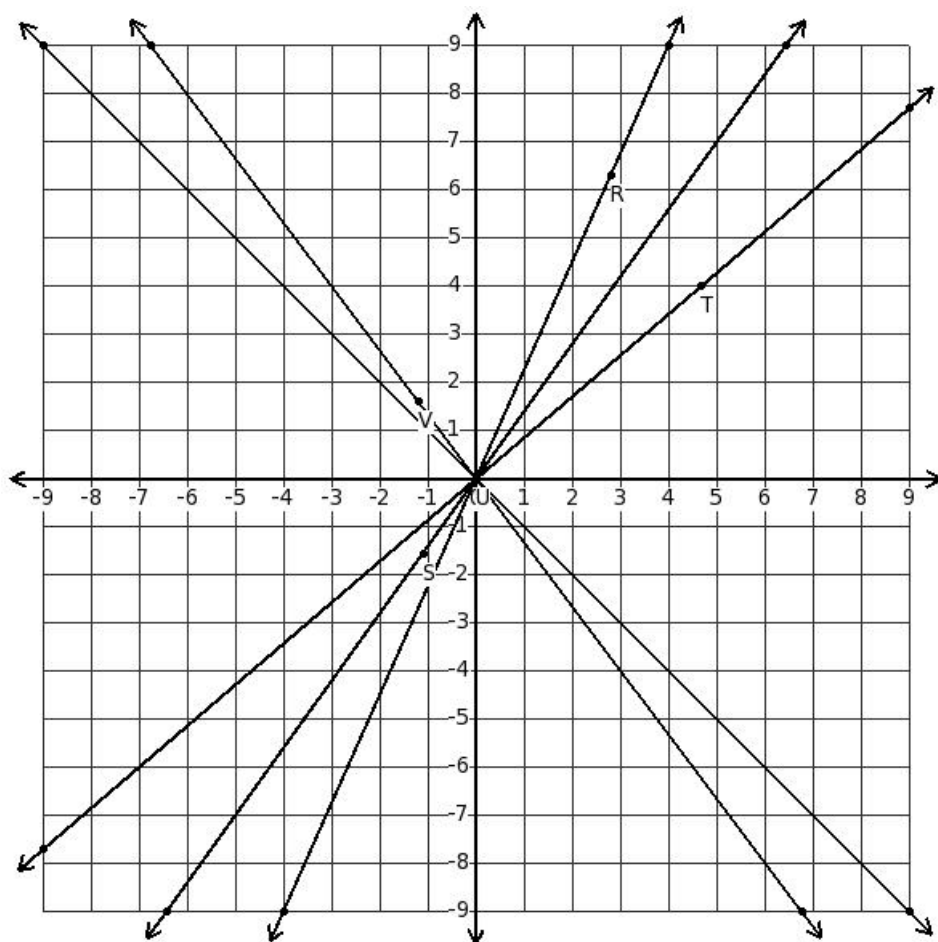
- (i) line with point O
- (ii) line with point S
- (iii) line with point Q
- (iv) line with point P
- (v) line with point R

10. Which of the displayed lines represent the equation $y = \left(\frac{5}{4}x + \frac{1}{4} \right)$



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

11. Which of the displayed lines represent the equation $y = \frac{9}{4}x$



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

Assignment Key

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