

EduSahara™ Learning Center Assignment**Grade : Class X, SSC****Chapter : Pair of Linear Equations in Two Variables****Name : Points satisfying the Equation**1. Find the set of points satisfying the equation $(-5x - y + 34) = 0$

- (i) $((-2), 44), ((-1), 39), (0, 34), (1, 29), (2, 24)$
- (ii) $((-2), 44), ((-1), 39), (1, 33), (1, 29), (2, 24)$
- (iii) $((-2), 44), ((-1), 39), (0, 34), (1, 29), (4, 26)$
- (iv) $((-2), 44), ((-1), 39), ((-2), 32), (1, 29), (2, 24)$
- (v) $((-2), 44), ((-1), 39), (0, 34), (0, 30), (2, 24)$

2. Find the set of points satisfying the equation $y = (-\frac{17}{6}x - \frac{33}{2})$

- (i) $((-2), (-\frac{65}{6})), ((-1), (-\frac{41}{3})), (0, (-\frac{33}{2})), (0, (-\frac{55}{3})), (2, (-\frac{133}{6}))$
- (ii) $((-2), (-\frac{65}{6})), ((-1), (-\frac{41}{3})), ((-2), (-\frac{37}{2})), (1, (-\frac{58}{3})), (2, (-\frac{133}{6}))$
- (iii) $((-2), (-\frac{65}{6})), ((-1), (-\frac{41}{3})), (0, (-\frac{33}{2})), (1, (-\frac{58}{3})), (4, (-\frac{121}{6}))$
- (iv) $((-2), (-\frac{65}{6})), ((-1), (-\frac{41}{3})), (1, (-\frac{35}{2})), (1, (-\frac{58}{3})), (2, (-\frac{133}{6}))$
- (v) $((-2), (-\frac{65}{6})), ((-1), (-\frac{41}{3})), (0, (-\frac{33}{2})), (1, (-\frac{58}{3})), (2, (-\frac{133}{6}))$

3. Find the set of points satisfying the equation $x = (-\frac{3}{13}y - \frac{73}{13})$

- (i) $((-2), (-\frac{47}{3})), ((-1), (-20)), (0, (-\frac{73}{3})), (1, (-\frac{86}{3})), (4, (-31))$
- (ii) $((-2), (-\frac{47}{3})), ((-1), (-20)), (1, (-\frac{76}{3})), (1, (-\frac{86}{3})), (2, (-33))$
- (iii) $((-2), (-\frac{47}{3})), ((-1), (-20)), ((-2), (-\frac{79}{3})), (1, (-\frac{86}{3})), (2, (-33))$
- (iv) $((-2), (-\frac{47}{3})), ((-1), (-20)), (0, (-\frac{73}{3})), (0, (-\frac{83}{3})), (2, (-33))$
- (v) $((-2), (-\frac{47}{3})), ((-1), (-20)), (0, (-\frac{73}{3})), (1, (-\frac{86}{3})), (2, (-33))$

4. Find the set of points satisfying the equation $y = x$

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

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

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

5. Find the set of points satisfying the equation $(14x + 8y - 7) = 0$

(i) $((-2), \frac{35}{8}), ((-1), \frac{21}{8}), (1, (-\frac{1}{8})), (1, (-\frac{7}{8})), (2, (-\frac{21}{8}))$

(ii) $((-2), \frac{35}{8}), ((-1), \frac{21}{8}), (0, \frac{7}{8}), (1, (-\frac{7}{8})), (4, (-\frac{5}{8}))$

(iii) $((-2), \frac{35}{8}), ((-1), \frac{21}{8}), (0, \frac{7}{8}), (0, \frac{1}{8}), (2, (-\frac{21}{8}))$

(iv) $((-2), \frac{35}{8}), ((-1), \frac{21}{8}), ((-2), (-\frac{9}{8})), (1, (-\frac{7}{8})), (2, (-\frac{21}{8}))$

(v) $((-2), \frac{35}{8}), ((-1), \frac{21}{8}), (0, \frac{7}{8}), (1, (-\frac{7}{8})), (2, (-\frac{21}{8}))$

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

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

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

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

(iv) $((-2), (-1)), ((-1), (-1)), ((-2), (-3)), (1, (-1)), (2, (-1))$

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

7. Find the set of points satisfying the equation $x = (-4)$

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

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

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

(iv) $((-4), (-2)), ((-4), (-1)), ((-3), (-1)), ((-4), 1), ((-4), 2)$

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

Which of the following equations satisfy the given points

8. $((-2), 2), ((-1), \frac{1}{6}), (0, (-\frac{5}{3})), (1, (-\frac{7}{2})), (2, (-\frac{16}{3}))$?

(i) $x = (-1)$

(ii) $(-11x - 6y - 10) = 0$

(iii) $y = (-9)$

(iv) $(8x + 6y - 3) = 0$

$$(v) \quad x = \left(\frac{11}{6}y + \frac{31}{2} \right)$$

Which of the following equations satisfy the given points

$$9. \quad ((-2), \frac{39}{4}), ((-1), 9), (0, \frac{33}{4}), (1, \frac{15}{2}), (2, \frac{27}{4}) ?$$

$$(i) \quad y = 3$$

$$(ii) \quad x = 7$$

$$(iii) \quad (-9x - 12y - 24) = 0$$

$$(iv) \quad y = \left(-\frac{3}{4}x + \frac{33}{4} \right)$$

$$(v) \quad x = \left(\frac{3}{4}y + \frac{19}{4} \right)$$

Which of the following equations satisfy the given points

$$10. \quad ((-2), \frac{20}{7}), ((-1), \frac{12}{7}), (0, \frac{4}{7}), (1, (-\frac{4}{7})), (2, (-\frac{12}{7})) ?$$

$$(i) \quad (-13x - 14y + 7) = 0$$

$$(ii) \quad y = 5$$

$$(iii) \quad x = \left(\frac{13}{14}y + \frac{33}{14} \right)$$

$$(iv) \quad x = 7$$

$$(v) \quad (8x + 7y - 4) = 0$$

Which of the following equations satisfy the given points

$$11. \quad ((-2), 5), ((-1), 5), (0, 5), (1, 5), (2, 5) ?$$

$$(i) \quad (2x + 5y - 1) = 0$$

$$(ii) \quad x = \left(\frac{11}{8}y - \frac{119}{8} \right)$$

$$(iii) \quad (-11x - 8y - 45) = 0$$

$$(iv) \quad y = 5$$

$$(v) \quad y = \left(-\frac{11}{8}x - 6 \right)$$

Which of the following equations satisfy the given points

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

$$(i) \quad x = 9$$

$$(ii) \quad (9x + 8y - 3) = 0$$

$$(iii) \quad y = \left(-\frac{5}{6}x + \frac{7}{2} \right)$$

$$(iv) \quad y = (-4)$$

$$(v) \quad x = \left(\frac{5}{6}y + \frac{37}{3} \right)$$

Assignment Key

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