EduSahara™ Assignment

Name : Points satisfying the Equation

Chapter : Pair of Linear Equations in Two Variables

Grade : SSC Grade X

1. Find the set of points satisfying the equation $(-13x-y-7)=0$

   (i) $((-2),19),((-1),6),(0,(-7)),(1,(-20)),(2,(-33))$ (ii) $((-2),19),((-1),6),(0,(-7)),(1,(-20)),(4,(-31))$

   (iii) $((-2),19),((-1),6),((-2),(-9)),(1,(-20)),(2,(-33))$

   (iv) $((-2),19),((-1),6),(0,(-7)),(0,(-19)),(2,(-33))$ (v) $((-2),19),((-1),6),(1,(-8)),(1,(-20)),(2,(-33))$

2. Find the set of points satisfying the equation $y=(\frac{16}{13}x-\frac{53}{13})$

   (i) $((-2),(-\frac{85}{13})),((-1),(-\frac{69}{13})),((-2),(-\frac{79}{13})),(1,(-\frac{37}{13})),(2,(-\frac{21}{13}))$

   (ii) $((-2),(-\frac{85}{13})),((-1),(-\frac{69}{13})),(0,(-\frac{53}{13})),(0,(-\frac{24}{13})),(2,(-\frac{21}{13}))$

   (iii) $((-2),(-\frac{85}{13})),((-1),(-\frac{69}{13})),(0,(-\frac{53}{13})),(1,(-\frac{37}{13})),(4,\frac{5}{13})$

   (iv) $((-2),(-\frac{85}{13})),((-1),(-\frac{69}{13})),(0,(-\frac{53}{13})),(1,(-\frac{37}{13})),(2,(-\frac{21}{13}))$

   (v) $((-2),(-\frac{85}{13})),((-1),(-\frac{69}{13})),(1,(-\frac{66}{13})),(1,(-\frac{37}{13})),(2,(-\frac{21}{13}))$

3. Find the set of points satisfying the equation $x=(-\frac{5}{9}y-\frac{2}{3})$

   (i) $((-2),\frac{12}{5}),((-1),\frac{3}{5}),((-2),(-\frac{16}{5})),(1,(-3)),(2,(-\frac{24}{5}))$

   (ii) $((-2),\frac{12}{5}),((-1),\frac{3}{5}),(0,(-\frac{6}{5})),(1,(-3)),(4,(-\frac{14}{5}))$

   (iii) $((-2),\frac{12}{5}),((-1),\frac{3}{5}),(0,(-\frac{6}{5})),(1,(-3)),(2,(-\frac{24}{5}))$

   (iv) $((-2),\frac{12}{5}),((-1),\frac{3}{5}),(1,(-\frac{11}{5})),(1,(-3)),(2,(-\frac{24}{5}))$

   (v) $((-2),\frac{12}{5}),((-1),\frac{3}{5}),(0,(-\frac{6}{5})),(0,(-2)),(2,(-\frac{24}{5}))$

4. Find the set of points satisfying the equation $y=13x$

   (i) $((-2),(-26)),((-1),(-13)),(0,0),(1,13),(4,28)$ (ii) $((-2),(-26)),((-1),(-13)),(1,(-1)),(1,13),(2,26)$

   (iii) $((-2),(-26)),((-1),(-13)),(0,0),(1,13),(2,26)$

   (iv) $((-2),(-26)),((-1),(-13)),((-2),(-2)),(1,13),(2,26)$

   (v) $((-2),(-26)),((-1),(-13)),(0,0),(0,14),(2,26)$

5. Find the set of points satisfying the equation $(6x+5y-3)=0$

(i) $((-2),3),((-1),\frac{9}{5}),(0,\frac{3}{5}),(0,\frac{2}{5}),(2,(-\frac{9}{5}))$ (ii) $((-2),3),((-1),\frac{9}{5}),(0,\frac{3}{5}),(1,(-\frac{3}{5})),(4,\frac{1}{5})$

(iii) $((-2),3),((-1),\frac{9}{5}),(1,(-\frac{2}{5})),(1,(-\frac{3}{5})),(2,(-\frac{9}{5}))$

(iv) $((-2),3),((-1),\frac{9}{5}),((-2),(-\frac{7}{5})),(1,(-\frac{3}{5})),(2,(-\frac{9}{5}))$ (v) $((-2),3),((-1),\frac{9}{5}),(0,\frac{3}{5}),(1,(-\frac{3}{5})),(2,(-\frac{9}{5}))$

6. Find the set of points satisfying the equation $y=3$

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

(iii) $((-2),3),((-1),3),(0,3),(0,4),(2,3)$ (iv) $((-2),3),((-1),3),(0,3),(1,3),(2,3)$

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

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

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

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

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

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

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

8. Which of the following equations satisfy the given points $((-2),1),((-1),0),(0,(-1)),(1,(-2)),(2,(-3))$?

(i) $x=(-3)$ (ii) $(54x+35y-30)=0$ (iii) $y=(-8)$ (iv) $(-5x-5y-5)=0$ (v) $y=(-x-11)$

9. Which of the following equations satisfy the given points $((-2),\frac{9}{13}),((-1),(-\frac{3}{13})),(0,(-\frac{15}{13})),(1,(-\frac{27}{13})),(2,(-3))$?

(i) $y=(-\frac{12}{13}x-\frac{15}{13})$ (ii) $(9x+10y-5)=0$ (iii) $x=(\frac{12}{13}y+\frac{62}{13})$ (iv) $y=(-3)$ (v) $x=2$

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) $y=(-\frac{10}{13}x-\frac{28}{13})$ (ii) $x=(\frac{10}{13}y+\frac{125}{13})$ (iii) $y=(-6)$ (iv) $(9x+4y-2)=0$ (v) $x=5$

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

(i) $(-10x-10y+40)=0$ (ii) $x=(-4)$ (iii) $(21x+9y-7)=0$ (iv) $y=(-2)$ (v) $x=(y-2)$

12. Which of the following equations satisfy the given points $((-6),(-2)),((-6),(-1)),((-6),0),((-6),1),((-6),2)$?

(i) $(15x+16y-6)=0$ (ii) $y=(-\frac{11}{9}x-\frac{16}{3})$ (iii) $x=(-6)$ (iv) $(-11x-9y-17)=0$ (v) $x=(\frac{11}{9}y-\frac{76}{9})$

Assignment Key

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