



Linear Equations in Two Variables Ex 13.1 Q1

Answer :

(i) We are given

$$-2x + 3y = 12$$

$$-2x + 3y - 12 = 0$$

Comparing the given equation with $ax + by + c = 0$, we get

$$a = -2; b = 3; c = -12$$

(ii) We are given

$$x - \frac{y}{2} - 5 = 0$$

Comparing the given equation with $ax + by + c = 0$, we get

$$a = 1; b = \frac{1}{2}; c = -5$$

(iii) We are given

$$2x + 3y = 9.\overline{35}$$

$$2x + 3y - 9.\overline{35} = 0$$

Comparing the given equation with $ax + by + c = 0$, we get

$$a = 2; b = 3; c = -9.\overline{35}$$

(iv) We are given

$$3x = -7y$$

$$3x + 7y = 0$$

Comparing the given equation with $ax + by + c = 0$, we get

$$a = 3 ; b = 7 ; c = 0$$

(v) We are given

$$2x + 3 = 0$$

Comparing the given equation with $ax + by + c = 0$, we get

$$a = 2 ; b = 0 ; c = 3$$

(vi) We are given

$$y - 5 = 0$$

Comparing the given equation with $ax + by + c = 0$, we get

$$a = 0 ; b = 1 ; c = -5$$

(vii) We are given

$$4 = 3x$$

$$3x - 4 = 0$$

Comparing the given equation with $ax + by + c = 0$, we get

$$a = 3 ; b = 0 ; c = 4$$

(viii) We are given

$$y = \frac{x}{2}$$

Taking L.C.M

$$x - 2y = 0$$

Comparing the given equation with $ax + by + c = 0$, we get

$$a = 1 ; b = -2 ; c = 0$$

***** END *****