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

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

(iii) We are given

$2x+3y=9.3\overline{5}$

$2x+3y-9.3\overline{5}=0$

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

$\boxed{a=2\ ;\ b=3\ ;\ c=\text{-}9.3\overline{5}}$

(iv) We are given

$3x = -7y$

$3x + 7y = 0$

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

$\boxed{a = 3\ ;\ b = 7\ ;\ c = 0}$

(v) We are given

$2x + 3 = 0$

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

$\boxed{a = 2\ ;\ \mathrm{b} = 0\ ;\ \mathrm{c} = 3}$

(vi) We are given

$y - 5 = 0$

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

$\boxed{a = 0\ ;\ b = 1\ ;\ c = -5}$

(vii) We are given

$4 = 3x$

$3x - 4 = 0$

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

$\boxed{a = 3\ ;\ b = 0\ ;\ c = 4}$

(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

$\boxed{a = 1; b = -2; c = 0}$

********** END **********