Linear Equations in Two Variables Ex 13.2 Q2

Answer :

(i) We are given,

$5x-2y=10$

Substituting x = 0 in the given equation, we get

$5\times 0-2y=10$

$-2y=10$

$y=-\frac{10}{2}$

$y=-5$

Thus $\boxed{x=0}$ and $\boxed{y=-5}$ is the solution of $5x-2y=10$

Substituting y = 0 in the given equation, we get

$5x-2\times 0=10$

$5x=10$

$x=\frac{10}{5}$

$y=2$

Thus $\boxed{x=2}$ and $\boxed{y=0}$ is the solution of $5x-2y=10$

(ii) We are given,

$-4x+3y=12$

Substituting $x=0$ in the given equation, we get

$-4\times 0+3y=12$

$3y=12$

$y=4$

Thus $x = 0$ and $y = 4$ is the solution of the $-4x + 3y = 12$

Substituting $y = 0$ in the given equation, we get

$-4x+3\times 0=12$

$-4x=12$

$x=-\frac{12}{4}$

$x=-3$

Thus $\boxed{x=-3}$ and $\boxed{y=0}$ is the solution of $-4x+3y=12$

(iii) We are given,

$2x+3y=24$

Substituting x = 0 in the given equation, we get

$2\times 0+3y=24$

$3y=12$

$y=\frac{24}{3}$

$y=8$

Thus $\boxed{x=0}$ and $\boxed{y=8}$ is the solution of $2x+3y=24$

Substituting y = 0 in the given equation, we get

$2x+3\times 0=24$

$2x=24$

$x=\frac{24}{2}$

$x=12$

Thus $\boxed{x=12}$ and $\boxed{y=0}$ is the solution of $2x+3y=24$

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