

Solve $x+3y=6$ and $2x-3y=6$.

Solution:

$$x+3y=6\text{-----(1)}$$

$$2x-3y=6\text{-----(2)}$$

Adding these we get

$$x+3y=6$$

$$\underline{2x-3y=6}$$

$$\Rightarrow 3x=12 \Rightarrow \quad ;$$

$$\Rightarrow x=4 \Rightarrow \text{consider (1) } x+3y=6 \Rightarrow 4+3y=6$$

$$\Rightarrow 3y=6-4=2$$

$$\Rightarrow y=\frac{2}{3}; \quad \text{So} \quad \text{and} \quad \text{are the solution.}$$

Choose from this drop in correct place.

$$3x+(0)y=12$$

$$x=\frac{12}{3}$$

$$y=\frac{2}{3}$$

$$x=4$$