

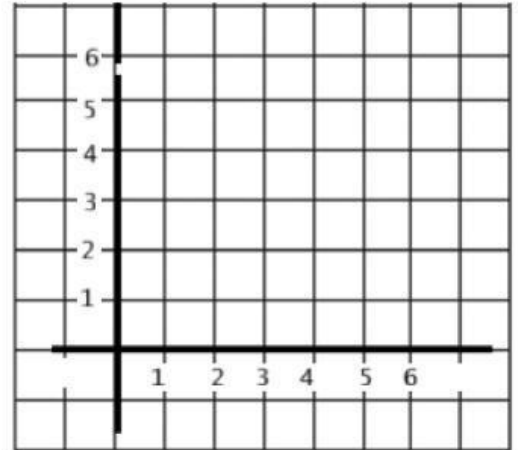
# IP Maths Homework

Name: \_\_\_\_\_ Grade \_\_\_\_/\_\_\_\_ No.: \_\_\_\_\_

## Simultaneous Linear Equations

1. Graph the ff. equations to determine its solution.

$x + y = 6$		$-4x + y = 2$	
$x = 0$	$y = 0$	$x = 0$	$y = 0$
$0 + y = 6$	$x + 0 = 6$	$0 + y = 2$	$-4x + 0 = 2$
$y = \underline{\hspace{2cm}}$	$x = \underline{\hspace{2cm}}$	$y = \underline{\hspace{2cm}}$	$y = \underline{\hspace{2cm}}$
$(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$	$(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$	$(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$	$(\underline{\hspace{1cm}}, \underline{\hspace{1cm}})$



$x = \underline{\hspace{2cm}}$   $y = \underline{\hspace{2cm}}$

2. Solve simultaneously by substitution.

$$3x - 4y = 17$$

$$x - 4y = 3 \rightarrow x = \underline{\hspace{2cm}}$$

$$3(\underline{\hspace{2cm}}) - 4y = 17$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} - 4y = 17$$

$$\underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}} - \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$

$$x = 3 - 4y$$

$$x = 3 - 4(\underline{\hspace{2cm}})$$

$$x = 3 - \underline{\hspace{2cm}}$$

$$x = \underline{\hspace{2cm}}$$

The solution is  $(\underline{\hspace{2cm}}, \underline{\hspace{2cm}})$ .

3. Solve simultaneously by elimination.

$$5x + 2y = 13$$

$$x + 2y = 9$$

$$\underline{\hspace{2cm}}x = \underline{\hspace{2cm}}$$

$$x = \underline{\hspace{2cm}}$$

$$x = \underline{\hspace{2cm}}$$

$$x + 2y = 9$$

$$\underline{\hspace{2cm}} + 2y = 9$$

$$y = \underline{\hspace{2cm}}$$