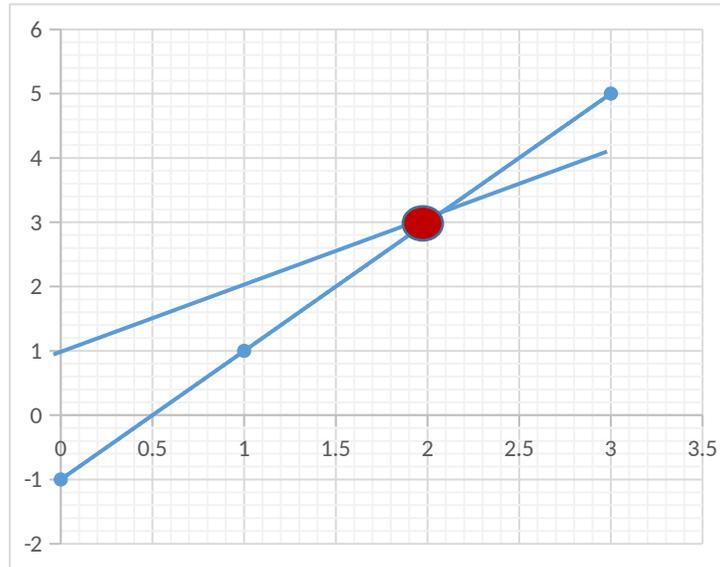


# Answers Sheet

## Solving Simultaneously Equations Graphically

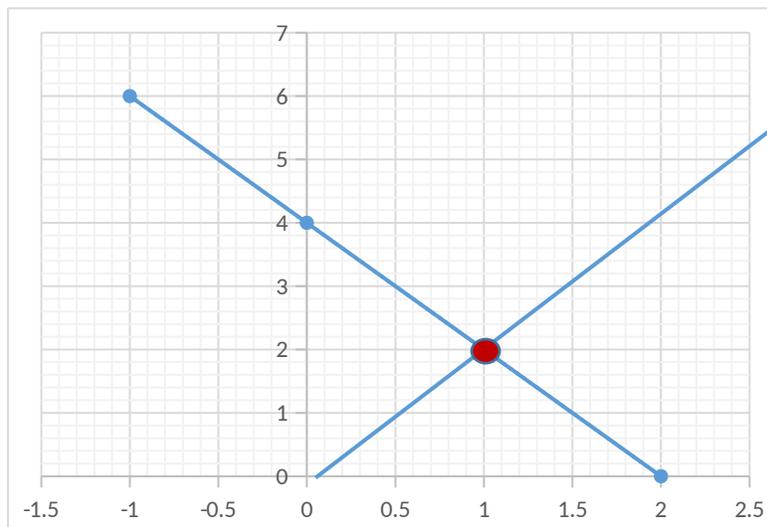
1.



$$x = 2$$
$$y = 3$$

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2.



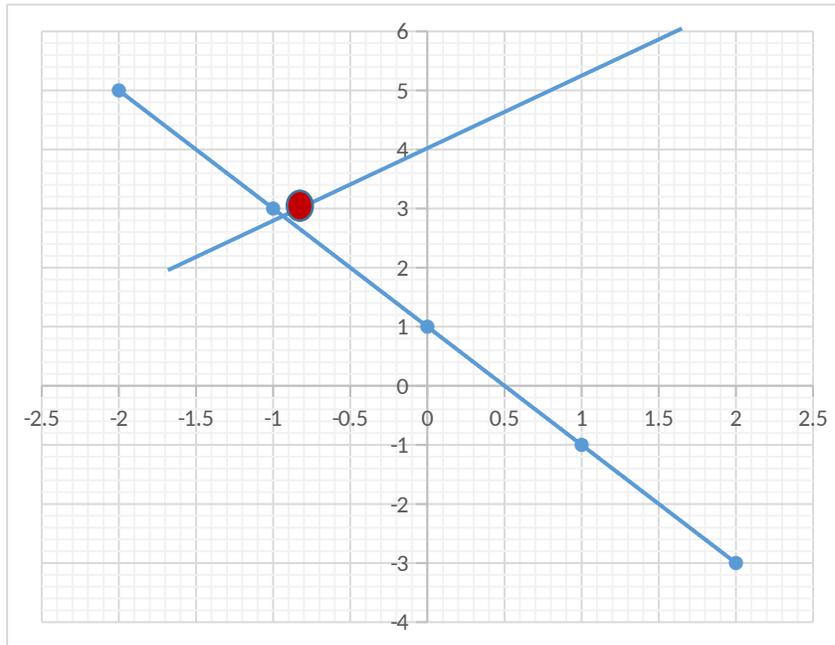
$$x = 1$$
$$y = 2$$

3.

a)  $y = x + 4$

x	-2	-1	0	1	2
y	2	3	4	5	6

b)



$x = -1$   
 $y = 3$

4.

$y = 2x - 3$  ..... (i)

$y = -\frac{2}{3}x + 5$

$2x - 3 = -\frac{2}{3}x + 5$

**Multiply by 3 on both sides**

$6x - 9 = -2x + 15$

$6x + 2x = 15 + 9$

$8x = 24$

$x = 3$

**Put the value of x in equation (i)**

$y = 2(3) - 3$

$y = 6 - 3$

$y = 3$

5.

$$y = -\left(\frac{2}{3}\right)x + 4$$

$$y = -\left(\frac{5}{3}\right)x + 7 \dots\dots\dots \text{(i)}$$

$$-\left(\frac{2}{3}\right)x + 4 = -\left(\frac{5}{3}\right)x + 7$$

**Multiply by 3 on both sides**

$$-2x + 12 = -5x + 21$$

$$-2x + 5x = 21 - 12$$

$$3x = 9$$

$$x = 3$$

**Put the values of x in equation (i)**

$$y = -\left(\frac{5}{3}\right)x + 7$$

$$y = -\left(\frac{5}{3}\right)3 + 7$$

$$y = -\left(\frac{15}{3}\right) + 7$$

$$y = -5 + 7$$

$$y = 2$$

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