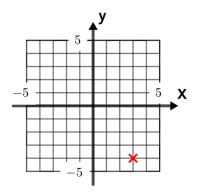
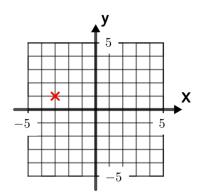
Foundation worksheet

1) Write down the coordinates of the point shown.



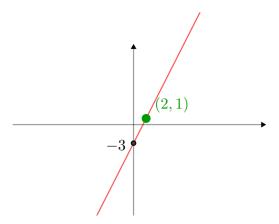
2) Write down the coordinates of the point shown.



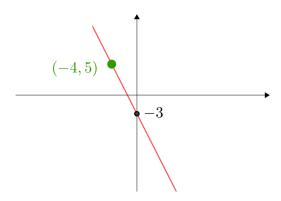
- 3) Find the coordinates of the midpoint of (2, 11) and (8, 13).
- 4) Find the coordinates of the midpoint of (-3, 1) and (-7, 5).
- 5) Find the coordinates of the midpoint of (-4, -2) and (-7, 3).

Foundation worksheet

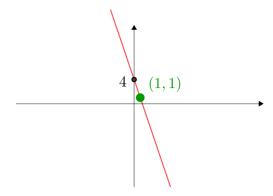
6) Find the equation of this line in the form y = mx + c.



7) Find the equation of this line in the form y = mx + c.

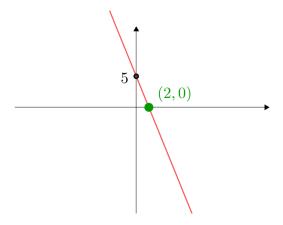


8) Find the equation of this line in the form y = mx + c.



Foundation worksheet

9) Find the equation of this line in the form y = mx + c.



- 10) (k, 11) is a point on the line y = x. Find k.
- 11) (-4, u) is a point on the line y = 3x + 2. Find u.
- 12) (p, 28) is a point on the line y = 3x + 4. Find p.

13) Find the equation of the line parallel to y = 2x - 3 that passes through (0, 7).



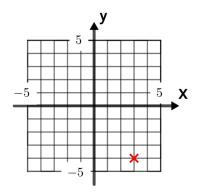
Foundation worksheet

- 14) Find the equation of the line parallel to y = -5 that passes through (0, 4).
- 15) Find the equation of the line parallel to y = x + 7 that passes through (0, -2).



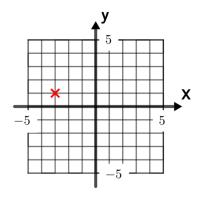
Foundation worksheet

1) Write down the coordinates of the point shown.



(3, -4)

2) Write down the coordinates of the point shown.



(-3, 1)

3) Find the coordinates of the midpoint of (2, 11) and (8, 13).

(5, 12)

4) Find the coordinates of the midpoint of (-3, 1) and (-7, 5).

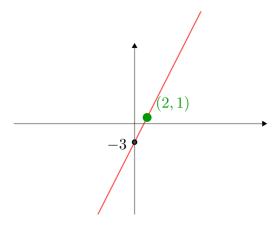
(-5, 3)

5) Find the coordinates of the midpoint of (-4, -2) and (-7, 3).

 $\left(-5\frac{1}{2}, \frac{1}{2}\right)$

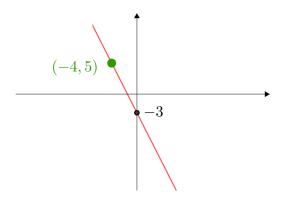
Foundation worksheet

6) Find the equation of this line in the form y = mx + c.



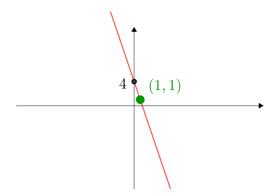
$$y = 2x - 3$$

7) Find the equation of this line in the form y = mx + c.



$$y = -2x - 3$$

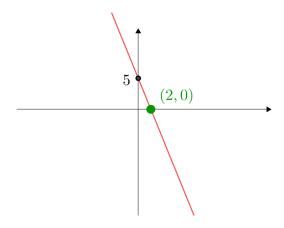
8) Find the equation of this line in the form y = mx + c.



$$y = -3x + 4$$

Foundation worksheet

9) Find the equation of this line in the form y = mx + c.



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

10) (k, 11) is a point on the line y = x. Find k.

k = 11

11) (-4, u) is a point on the line y = 3x + 2. Find u.

Substituting x = -4, y = u into y = 3x + 2: $u = 3 \times -4 + 2 = -10$

12) (p, 28) is a point on the line y = 3x + 4. Find p.

Substituting x = p, y = 28 into y = 3x + 4:

$$28 = 3p + 4$$

$$\Rightarrow$$
 24 = 3p

 \Rightarrow 8 = p

13) Find the equation of the line parallel to y = 2x - 3 that passes through (0, 7).

We need a gradient of 2 and a y-intercept of 7, so: y = 2x + 7



Foundation worksheet

14) Find the equation of the line parallel to y=-5 that passes through $(0,\,4).$

```
We need horizontal line (gradient 0) with a y-intercept of 4, so: y = 4
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15) Find the equation of the line parallel to y = x + 7 that passes through (0, -2).

```
We need a gradient of 1 and a y-intercept of -2, so: y = x - 2
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