

Homework: Linear equations prior knowledge

1. In the following two problems, solve for the value of x .

(a) $x - 5 = 12$

(b) $13 - x = -3$

2. Given $g(x) = x^2 - 5x + 15$. Simplify $g(0)$.

3. Given $f(x) = 3x - 2$. Solve for x such that for $f(x) = 13$.

4. A line is shown on the grid below.

- (a) Write down it's slope.

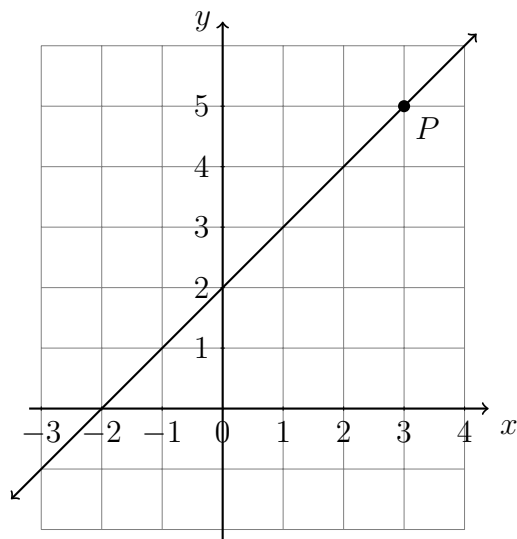
$m =$

- (b) Write down it's y -intercept.

$b =$

- (c) Write down the equation of the line.

- (d) State the coordinates of the point P .



5. The line l has the equation $y = \frac{3}{2}x - 1$.

(a) Write down its slope. $m =$

(b) Write down its y -intercept. $b =$

(c) Is the point $(4, 4)$ on the line l ? Justify your answer.

6. Draw a straight line through the points A and B shown on the grid below.

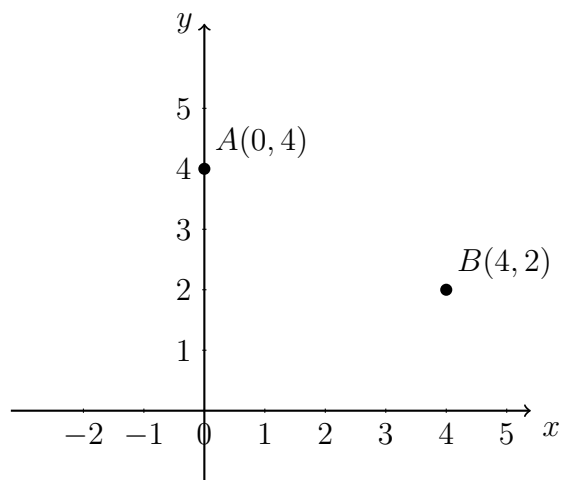
(a) Write down the line's y -intercept.

$b =$

(b) Write down the slope of the line.

$m =$

(c) Write down the equation of the line.



7. Early finishers: Simplify each expression. (Leave it in radical form if necessary, not a decimal.)

(a) $\sqrt{25}$

(b) $\sqrt{24}$