Unit 1 Quiz: Linear equations prior knowledge

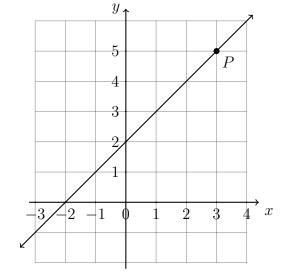
- 1. In the following two problems, solve for the value of x.
 - (a) x 5 = 12

(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.



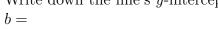
(d) State the coordinates of the point P.

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

- (a) Write down it's slope. m =
- (b) Write down it's 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.

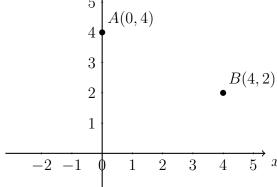
(a) Write down the line's y-intercept.





(b) 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) $\sqrt{24}$