## Exercise 22

Find the point of intersection for the 2 linear functions:  $\begin{aligned} x &= y + 6\\ 2x - y &= 13 \end{aligned}$ 

## Solution

The first equation says that x is y + 6. Substitute this formula into the second equation.

$$2(y+6) - y = 13$$

Solve for y.

$$2y + 12 - y = 13$$
$$y + 12 = 13$$
$$y = 1$$

From the first equation, then, x = 1 + 6 = 7. Therefore, the point of intersection of the two lines is (7, 1).

