## Target 9 Sheet 01A

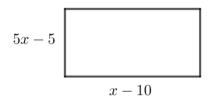
Question 1

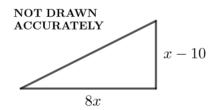
The graph of y = 7 x + 2 is reflected in the y-axis to give graph P.

Work out the equation of graph P.

## Question 2

The area of the rectangle is greater than the area of the triangle. Find the set of possible values of x.





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Question 1

The graph of y = 7 x + 2 is reflected in the y-axis to give graph P.

Work out the equation of graph P.

A reflection of the graph of y = f(x) in the y-axis gives the graph of y = f(-x).

So the equation of graph P is y = -7 x + 2.

## Question 2

The area of the rectangle is greater than the area of the triangle. Find the set of possible values of x.

$$5x - 5$$

$$x - 10$$

NOT DRAWN ACCURATELY 
$$x-10$$

$$(5x-5)(x-10) > \frac{8x(x-10)}{2}$$

$$\Rightarrow 5 x^2 - 55 x + 50 > 4 x^2 - 40 x$$

$$\Rightarrow x^2 - 15 x + 50 > 0$$

$$\Rightarrow x^2 - 15 x + 50 > 0 \Rightarrow (x - 5)(x - 10) > 0$$

 $\Rightarrow x > 10$  (ignore x < 5 since lengths must be positive)