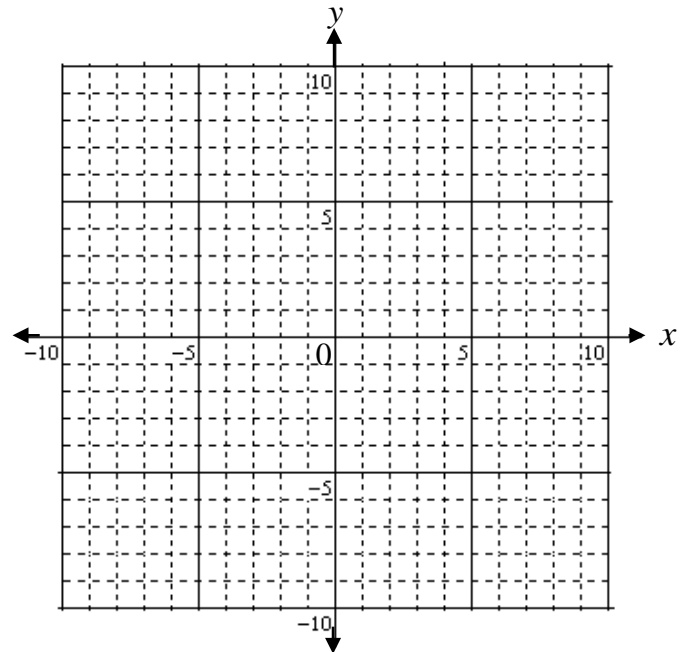


## STATION 11

For the relation  $y = -3(x - 2)^2 + 3$

**i)** The vertex is:

**ii)** State the transformations applied to the graph of  $y = x^2$  to obtain the graph of this quadratic relation.

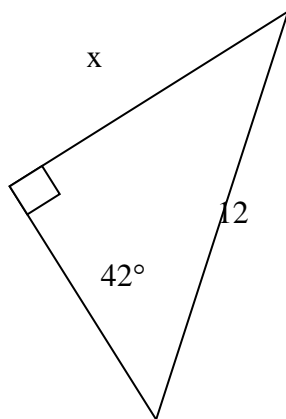


**iii)** Sketch the graph of  $y = x^2$  and  $y = -3(x - 2)^2 + 3$  on the grid provided.

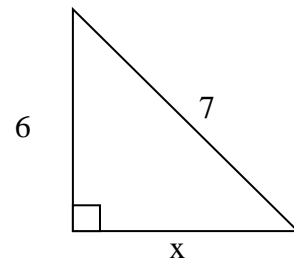
## STATION 12

Determine the value of  $x$  to one decimal place.

a)



b)



## STATION 13

Given  $\triangle ABC$ :  $\angle A = 20^\circ$ ,  $\angle B = 75^\circ$ ,  $c = 25$ , draw a diagram and determine the measure of  $a$ .