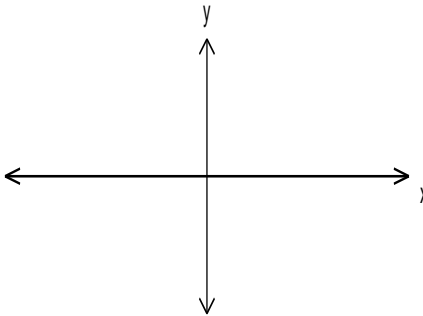
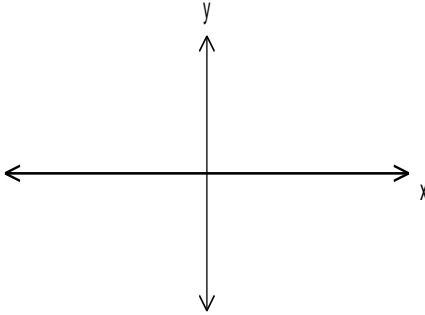
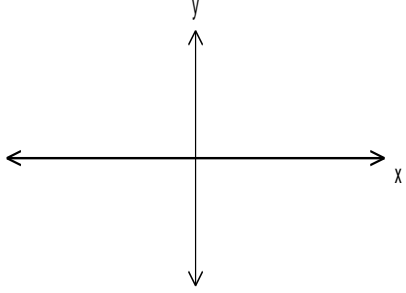
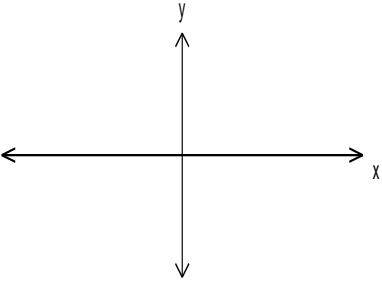
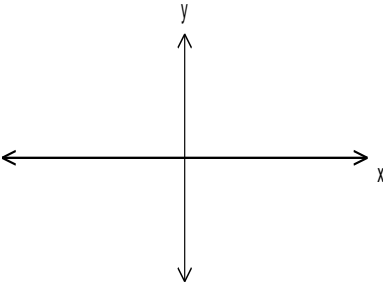
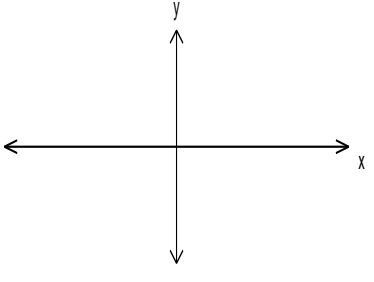


Revision Linear and Quadratic Function

1

 <p>Sketch $y = x^2 - 4$</p>	 <p>Sketch $x + y = 6$</p>	 <p>Sketch $y = (x - 2)^2 - 4$</p>
 <p>Sketch $2x + 3y = 6$</p>	 <p>Sketch $y = 9 - x^2$</p>	 <p>Sketch $5x - 2y = 100$</p>

2 State the gradient of the line perpendicular to the given gradient.

$Y=3x + 5$	
$2y - 5x = 10$	
$3x + 4y = 30$	
$2x - 5y = 36$	

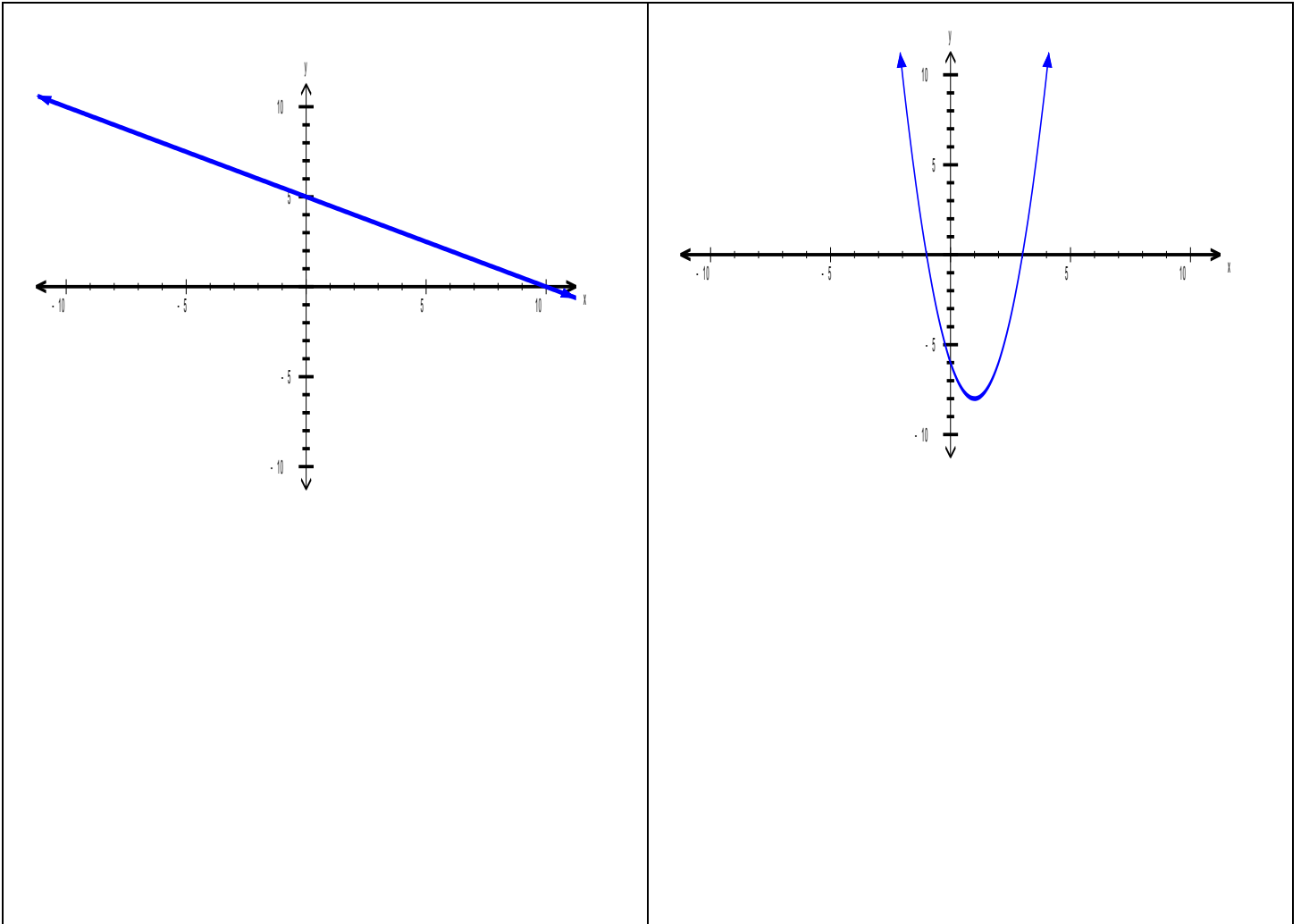
3 State the gradient of the line parallel to the line $2y - 6x = 22$

4 A function $f(x)$ has equation $f(x) = 2x^2 - 3x + 2$. Find the equation of the axis of symmetry of this function.

5 A function has equation $y = 10 - 5x$. State the coordinates of the x and y intercepts

6 A function has equation $y = (x - 3)^2$ State the x and y intercepts.

7 Find the equations of the graphs shown below.



8 Use a graphical method (show a sketch to aid your answer) to solve the following equation.

$$x^2 + 3x - 8 = 2x - 2$$

9 Find the equation of the line perpendicular to the line $2y + x = 6$ which also goes through the point (2,-3)

10 Find the maximum rectangular area which can be made from 80 metres of fence given that a wall may be used for one side of the enclosure.