

25th April



Corbettmaths

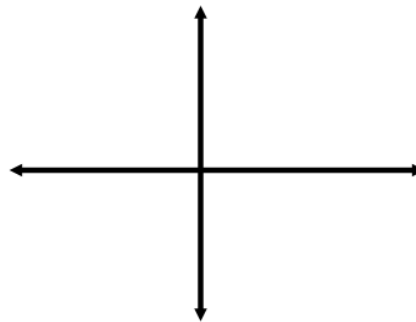
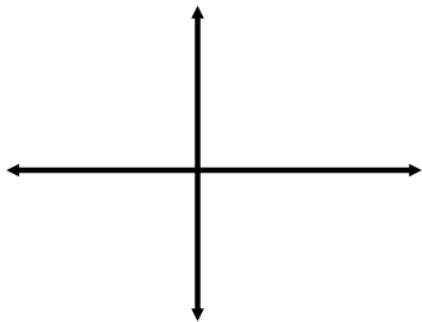
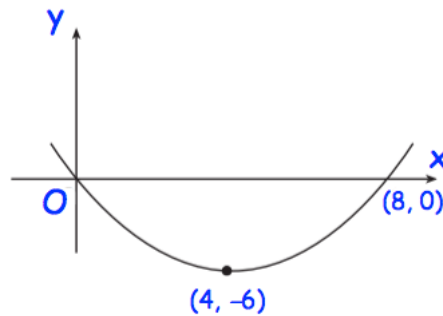
Rationalise the denominator

$$\frac{5 + \sqrt{2}}{\sqrt{2} + 1}$$

$$\sqrt{2} + 1$$

Shown is $y = f(x)$

Sketch

(a) $-f(x)$ (b) $f(-x)$ 

The points A, B and C have coordinates (8, 9), (1, 9) and (p, q) respectively.

The point D (7, 6) is the midpoint of AC.

Find the values of p and q

Find the area of triangle ABC

Find an equation of the line perpendicular to AC, passing through D.