

15th March



Corbettmaths

Work out

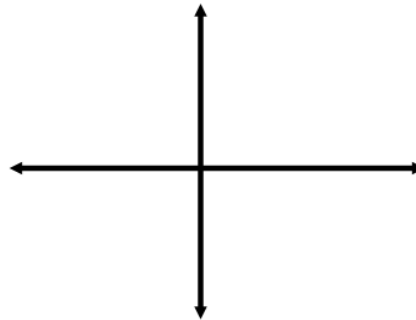
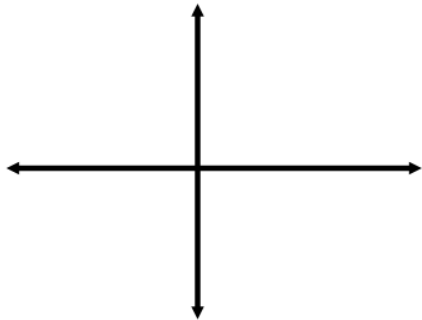
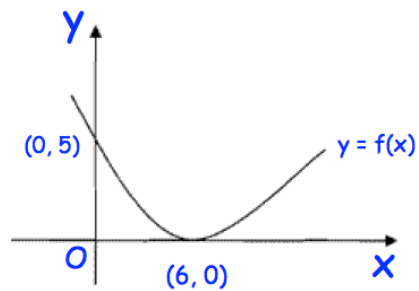
$$2^{-3}$$

Shown is the curve $y = f(x)$.

Sketch

(a) $y = f(x) - 2$

(b) $y = f(\frac{1}{2}x)$



Given the equation

 $3kx^2 + kx - 1 = 0$ has no real roots,
find the possible values of k .
A curve has equation $y = f(x)$ and
passes through the point $(1, 5)$

$$f'(x) = 3x^2 + \sqrt{x}$$

Find $f(x)$