



Write down the exact value of $\sin 30^\circ$

$$\frac{1}{2}$$

There are x apples in a crate.
3 of the apples are bad.

Mason chooses two apples from the crate, without replacement.

The probability that he selects two good apples is $\frac{5}{12}$

$$\frac{x-3}{x} \times \frac{x-4}{x-1} = \frac{5}{12}$$

$$\frac{x^2 - 7x + 12}{x^2 - x} = \frac{5}{12}$$

Prove $7x^2 - 79x + 144 = 0$

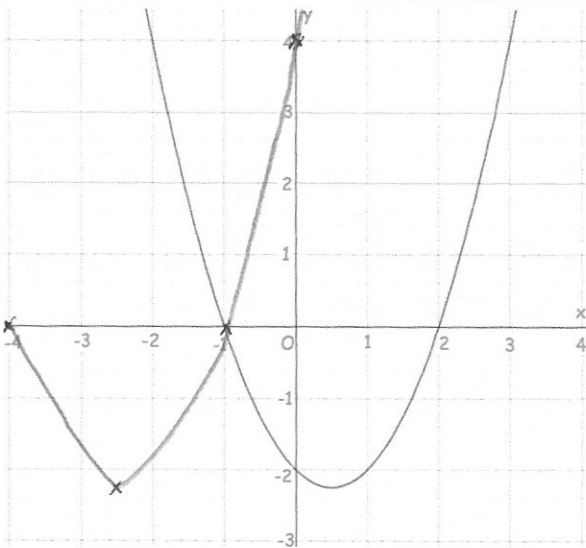
$$12x^2 - 84x + 144 = 5x^2 - 5x$$

$$7x^2 - 79x + 144 = 0$$

By using the quadratic formula, find x ,
the number of apples in the crate

$$(7x - 16)(x - 9) = 0$$

$$x = \frac{16}{7} \text{ or } \boxed{x = 9}$$



Shown is $y = f(x)$

Find $ff(1)$

$$f(1) = -2$$

$$f(-2) = 4$$

$$\boxed{4}$$

Sketch $y = f(x + 3)$

3 left