

29th March

Corbettmaths

Estimate

$$50^{-\frac{3}{2}}$$

The first 5 terms of a quadratic sequence are: 4, 10, 18, 28, 40

Work out the difference between the 10th and 20th terms.

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

Fiona chooses two apples from the crate, without replacement.
The probability she selects two bad apples is $\frac{1}{11}$

Prove

$$x^2 - x - 132 = 0$$

Find x , the number of apples in the crate.

Find where the tangent to the circle $x^2 + y^2 = 160$ at the point (4, -12) meets the x-axis.