

9th January



Corbettmaths

Simplify this ratio fully

$$\sqrt{20} : \sqrt{45} : \sqrt{2000}$$

The n th term of a sequence is $\frac{3n^2 + 5}{6n^2 - 1}$

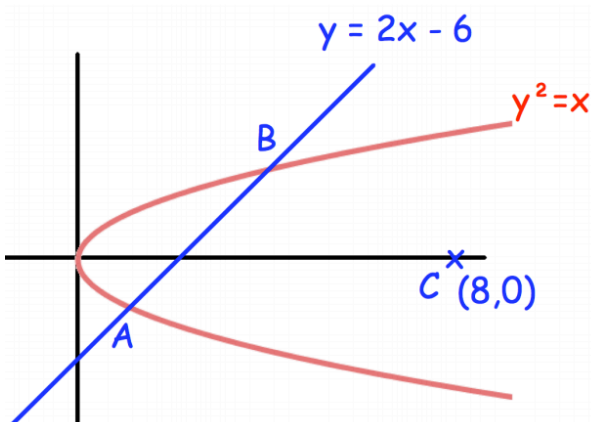
Find the limiting value of $\frac{3n^2 + 5}{6n^2 - 1}$ as
 $n \rightarrow \infty$

Given that

$$(ax + b)(x + 4)(x + c) \equiv 2x^3 + 19x^2 + 49x + 20$$

Find the values of a , b and c

Shown is the curve $y^2 = x$ and the line
 $y = 2x - 6$



The curve and the line meet at the
 points A and B.

The point C is (8, 0)

Show ABC is a right angled triangle.