

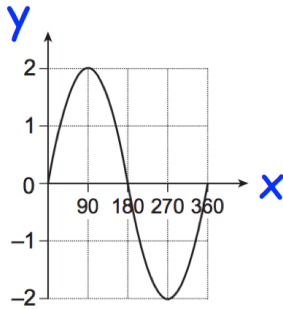
27th February

Corbettmaths

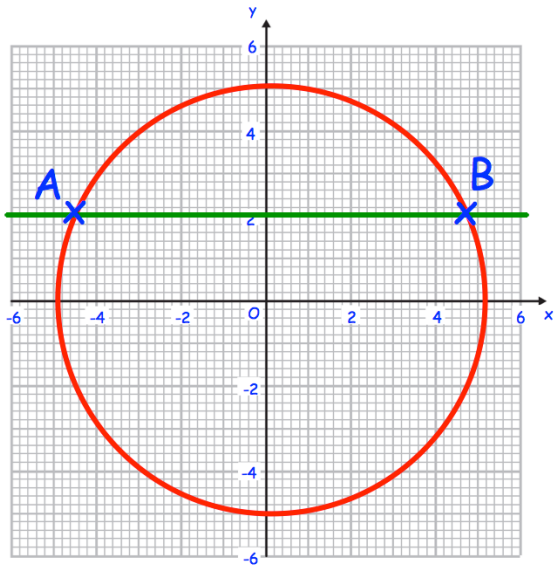
Simplify fully

$$\frac{3x}{x^2 + 3x + 2} + \frac{3}{x + 1}$$

a is directly proportional to \sqrt{c} .
w is inversely proportional to a^3 .

When $c = 49$, $a = 35$ When $a = 2$, $w = 16$.Find the value of w when $c = 4$.

Write down the equation of the curve shown.



A circle has equation $x^2 + y^2 = 25$
A straight line meets the circle at the points A and B.

Find the coordinates of the points A and B. Give your answers in surd form.