

7th July

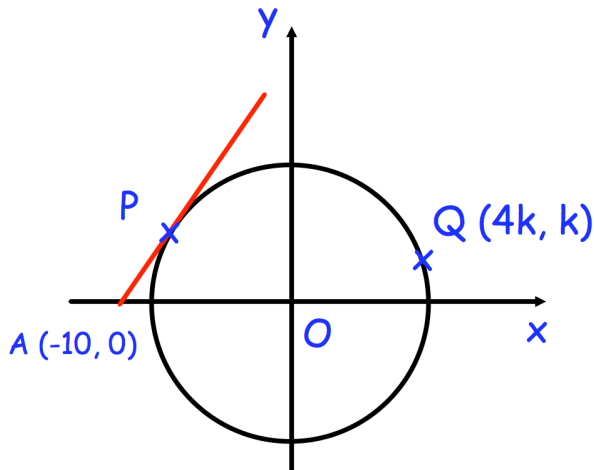


Corbettmaths

A car travelled for 135 minutes, to the nearest 5 minutes.

It travelled for a total distance of 120 km, to the nearest 10km

Work out the greatest possible average speed, in m/s



AP is a tangent to the circle.  
Angle OAP =  $60^\circ$

Find the value of k to 2 decimal places.

x is an obtuse angle.

Given

$$\sin(x) = \frac{5}{13}$$

Find  $\cos(x)$

Rationalise the denominator of

$$\frac{2 + \sqrt{3}}{\sqrt{5} - 1}$$