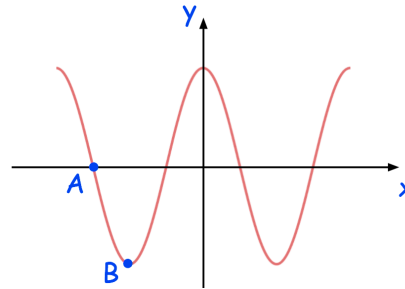


3rd July

Corbettmaths

Here is a sketch of $y = \cos(x)$

Write down the coordinates of point B



The ratio of Matt's age to Paul's age is $x:y$

Two years ago, the ratio of their ages was $5:8$

In three years time, the ratio of their ages will be $2:3$

Express $x:y$ in its lowest terms

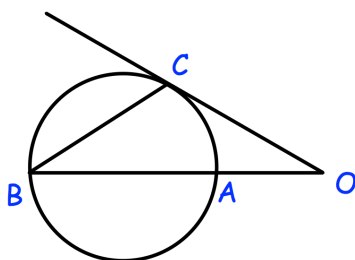
The distance between $(-3, a)$ and $(5, 1)$ is 17 units.

Find two possible values for a .

The numbers m and n are irrational and are not the same.

$m + n$ is rational

Write down possible values for m and n



OAB is a straight line and OC is a tangent to the circle.

Prove OBC and OAC are similar