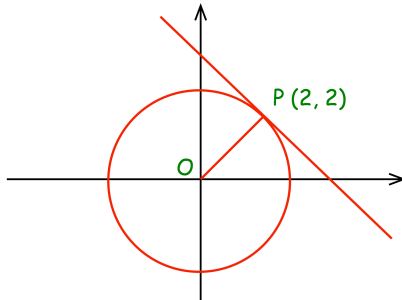


28th August

Corbettmaths

Simplify fully

$$\frac{3\cos(45^\circ) - \sin(45^\circ)}{\tan(30^\circ)}$$

Show is the circle $x^2 + y^2 = 8$

Find the equation of the tangent

In year 7 there are 20% more girls than boys.

$\frac{3}{20}$ of the girls are left handed

$\frac{1}{4}$ of the boys are left handed

43 of the students in year 7 are left handed.

Find how many students are in year 7

Two ships, A and B, leave a port at midday.
 A travels on a bearing of 085° at a speed of 18km/h.
 B travels on a bearing of 113° at a speed of y km/h.
 At 14:00 the distance between A and B is 30km.
 Boat B was travelling at a slower speed than boat A
 Work out y , the speed of boat B.