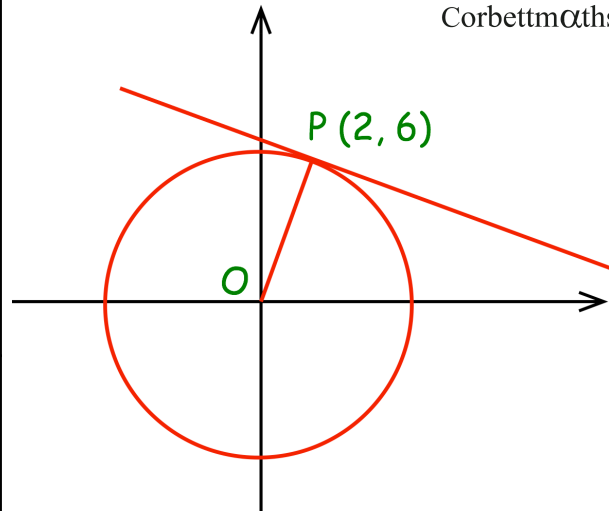


12th October

Corbettmaths

The diagram shows the circle $x^2 + y^2 = 40$ with a tangent at the point (2, 6)

Find the gradient of the line OP



Find the gradient of the tangent

Find the equation of the tangent

There are 25 beads in a bag.
There are only pink and green beads in the bag.

Jonah picks two beads at random, without replacement.

The probability that he picks two pink beads is 0.4

Work out the probability that Jonah picks two green beads.

Solve

$$2w^{\frac{1}{4}} - 14 = 0$$

Evaluate

$$\left(2\frac{7}{9}\right)^{-\frac{1}{2}}$$