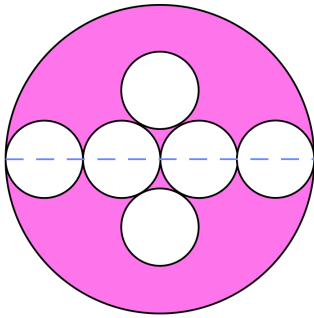


15th April



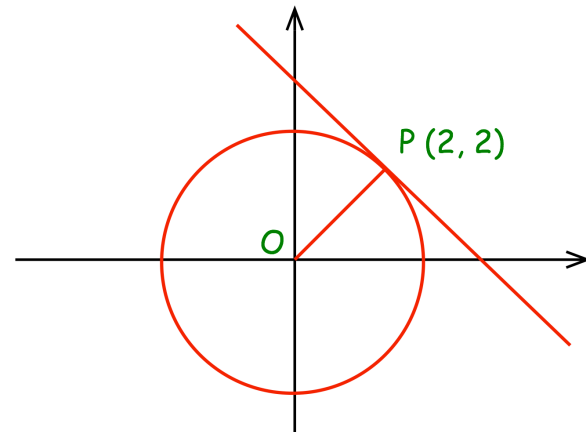
Corbettmaths



Six congruent small circles are drawn inside of a larger circle. Find the percentage of the large circle that is shaded.

The diagram shows the circle $x^2 + y^2 = 8$ with a tangent at the point $(2, 2)$

Find the gradient of the line OP.



Find the gradient of the tangent

Find the equation of the tangent

The length of the base of a triangle and its perpendicular height are:

$$\text{base: } \frac{x+5}{10} \text{ cm}$$

$$\text{height: } \frac{x-1}{4} \text{ cm}$$

Find an expression for the area of the triangle.