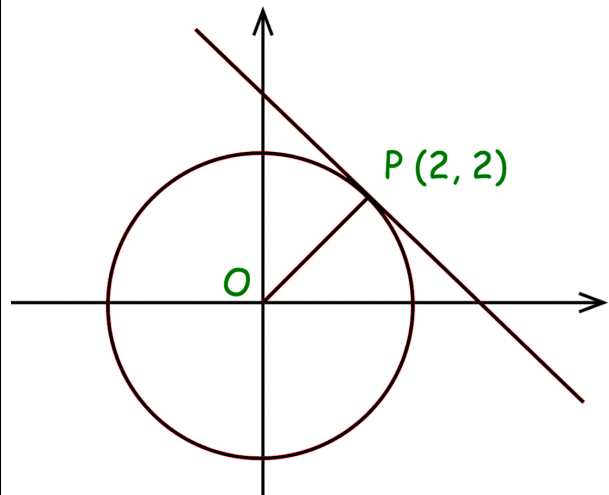


Six congruent small circles are drawn inside of a larger circle.
Find the percentage of the large circle that is shaded.

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

Solve

$$\frac{3}{2x-3} + \frac{2}{3x+1} = 1$$