

10th June

Corbettmaths

Write

$$\frac{3}{4x} \div \frac{6}{7x^2}$$

as a fraction in its simplest form.

$$A = 4 - x$$

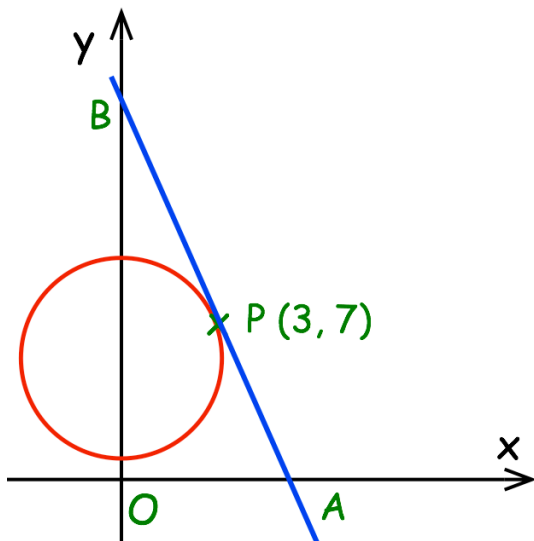
$$B = 7x - 4$$

$$C = x^2$$

Show that

$$(3A + B)^2 \equiv 6A + 10B + 16C + 80$$

Shown below is the circle with equation
 $x^2 + (y - 6)^2 = 10$



The line AB is a tangent to the circle at
 the point P (3, 7)

Find the area of triangle OAB.

$$y = ax^3 - 5x^2$$

Given $\frac{d^2y}{dx^2} = -6$ when $x = -\frac{1}{3}$

Find a