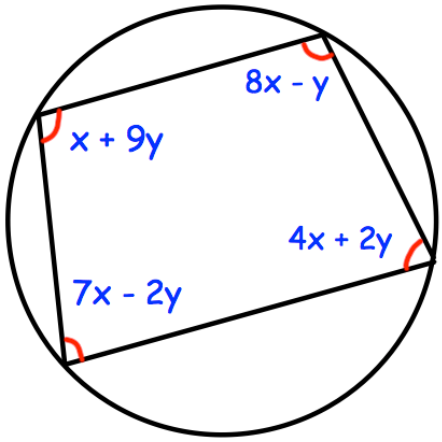
Name: _____ 5-a-day Further Maths

8th June

Corbettmaths

Shown is a cyclic quadrilateral



Find the values of x and y

$f(x) = 3x^3 - 11x^2 + 8x + 4$

Use factor theorem to show that (3x + 1) is a factor of f(x)

Factorise f(x) fully

$y = (x^2 + 5)(1 - x)$

Work out the value $\frac{d^2y}{dx^2}$ when $x = -1$