Name: _____ 5-a-day Higher Plus

14th November

Corbettmaths

Solve the simultaneous equations

$x + y = 1$

$16x^2 + y^2 = 65$

Work out in its simplest form

$(4 + \sqrt{5})(4 - \sqrt{5})$

Work out

$$(1\frac{9}{16})^{-\frac{3}{2}}$$

The approximate solution to an equation is found by using the iterative process

$$x_{n+1} = \frac{(x_n)^3 - 7}{10}$$

using $x_1 = -1$

Find

$$x_2$$

Work out the solution to 4 decimal places