


22nd August	
<p>Given</p> $2^y = \frac{1}{16}$ <p>Find y</p>	 Corbettmaths
<p>Show the equation $x^2 - 5x + 1 = 0$ can be written in the form</p> $x = 5 - \frac{1}{x}$	
<p>Starting with $x_0 = 3$, use the iteration formula</p> $x_{n+1} = 5 - \frac{1}{x_n}$ <p>twice to find an estimate of the solution of $x^2 - 5x + 1 = 0$</p>	
<p>Here are the first 5 terms of a quadratic sequence</p> <p>3 9 17 27 39</p> <p>Find an expression, in terms of n, for the nth term of this quadratic sequence</p>	
<p>A solid sphere has a diameter of 12cm. The sphere is made from glass. The density of the glass is 3.15g/cm^3</p> <p>Find the mass of the glass sphere.</p>	