


<b>14th April</b>		 Corbettmaths
<p>Show that the equation</p> $x^3 + 5x = 4$ <p>has a solution between <math>x = 0</math> and <math>x = 1</math></p>		
<p>Show that the equation <math>x^3 + 5x = 4</math> can be rearranged to give</p> $x = \frac{4}{5} - \frac{x^3}{5}$		
<p>Starting with <math>x_0 = 0</math> use the iteration formula</p> $x_{n+1} = \frac{4}{5} - \frac{x_n^3}{5}$ <p>three times to find an estimate for the solution of <math>x^3 + 5x = 4</math></p>		
<p>Trevor is a car salesman. He bought a car for £5000. Currently he is holding a sale with 35% off the price of all cars. Trevor wants to sell the car so that he makes a 10% profit on the price he paid.</p>	<p>How much should Trevor advertise the car for?</p>	
<p>Here are the first 5 terms of a quadratic sequence</p> <p>8      15      24      35      48</p> <p>Find an expression, in terms of <math>n</math>, for the <math>n</math>th term of this quadratic sequence.</p>		