


26th June	
Rationalise the denominator of $\frac{3}{2\sqrt{5}} \times \frac{\sqrt{5}}{\sqrt{5}} = \frac{3\sqrt{5}}{10}$	 Corbettmaths
A circle has an area of $200\text{cm}^2$ to 2 significant figures. $\therefore 195\text{cm}^2$ Work out the lower bound of the radius.	$195 = \pi r^2$ $r^2 = 62.07\dots$ $r = 7.8785\text{cm}$
Factorise $12x^2 + 5x - 3$	$(3x - 1)(4x + 3)$
Show that the equation $3x - x^3 = -11$ can be rearranged to give $x = \sqrt[3]{3x + 11}$	$3x + 11 = x^3$ $x = \sqrt[3]{3x + 11}$
Starting with $x_0 = 3$ , use the iteration formula $x_{n+1} = \sqrt[3]{3x_n + 11}$ three times to find an estimate for the solution of $3x - x^3 = -11$	$x_0 = 3$ $x_1 = 2.714417617$ $x_2 = 2.675091113$ $x_3 = 2.669584272$