| 26th April Higher Pl | 5-a-day |
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| Show the equation $3 x^{3}+7 x=5$ has a solution between 0 and 1 | Corbettmoths |
| Show that $3 x^{3}+7 x=5$ can be rearranged to give $x=\frac{5}{7}-\frac{3 x^{3}}{7}$ |  |
| Starting with $x_{0}=0$ use the iteration formula $x_{n+1}=\frac{5}{7}-\frac{3 x_{n}^{3}}{7}$ <br> three times to find an estimate for the solution to $3 x^{3}+7 x=5$ |  |
| Here is a sketch of $y=2 x^{2}+5 x-12$ | Find the equation of the line of symmetry of the graph. |
| The ratio of $A$ to $B$ is $1: 400$ where 400 is given to the nearest 100 . B is $5 \times 10^{15}$ correct to one significant figure | Calculate the minimum value of $A$ Give your answer in standard form. |

