

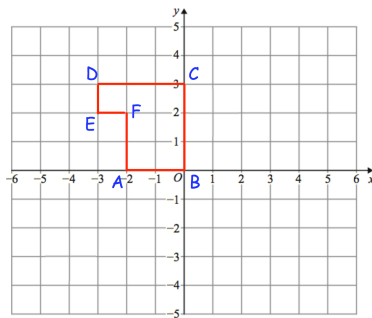
6th August



Corbettmaths

Evaluate

$$16^{-\frac{3}{4}}$$



Describe a single transformation so that only vertex F is invariant.

Show that the equation $x^3 + 4x = 8$ has a solution between $x = 1$ and $x = 2$

Show the equation $x^3 + 4x = 8$ can be rearranged to give

$$x = \sqrt[3]{8 - 4x}$$

Starting with $x_0 = 1$, use the iteration formula $x_{n+1} = \sqrt[3]{8 - 4x_n}$ three times to find an estimate for the solution of $x^3 + 4x = 8$