Name: _____ 5-a-day Higher Plus

6th August

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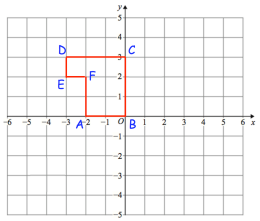
Evaluate $16^{-\frac{3}{4}}$	
	Describe a single transformation so that only vertex F is invariant.
Show that the equation $x^3 + 4x = 8$ has a solution between $x = 1$ and $x = 2$	
Show the equation $x^3 + 4x = 8$ can be rearranged to give $x = \sqrt[3]{8 - 4x}$	
Starting with $x_0 = 1$, use the iteration formula $x_{n+1} = \sqrt[3]{8 - 4x_n}$ three times to find an estimate for the solution of $x^3 + 4x = 8$	

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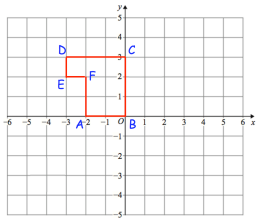	Describe a single transformation so that only vertex F is invariant.
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