2nd March

Corbettmaths

Factorise $12x^2 + 5x - 3$	
For what values of x is $y = (x + 3)^2$ an increasing function?	
Use Pascal's Triangle to work out the coefficient of x^2 in the expansion of $(2x - 11)^4$	
Show that $(x + 3)$ is a factor of $x^3 + 3x^2 - 49x - 147$	
Hence, or otherwise, find all the solutions of $x^3 + 3x^2 - 49x - 147 = 0$	