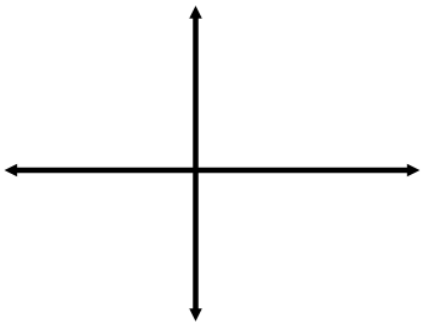
Name: _____ 5-a-day Core 1

24th Feb

Corbettmaths

Find the equation of the line passing through (1, 8) that is perpendicular to $2x + y + 1 = 0$	
Work out the gradient of the curve $y = x^2 + \sqrt{x}$ at $x = 4$	
Sketch $y = x(x + 3)(2 - x)$	
The sixth term of an arithmetic series is 63 The sum to 20 terms is 2250. Find a and d.	
The curve has equation $y = 2x^2 - 2$ A straight line has equation $y = mx - 6$ The line does not meet the curve. Find the range of possible values of m.	