Name: _____ 5-a-day Core 1

20th Jan

Corbettmaths

Points A, B and C are in a straight line. B is the midpoint of AC. Point A has coordinates (–2, 1) Point B has coordinates (3, 10)	Find the coordinates of C.
Write in the form $a\sqrt{2}$ $\sqrt{72} + \sqrt{3} \times \sqrt{6}$	
Differentiate with respect to x. $9x^{\frac{3}{5}} - \frac{8}{x^3}$	
The curve C with equation $y = 4x^2 - 4x + 1$ has a tangent with equation $y = 4x + c$ Find c	
The equation $x^2 - kx + 4 = 0$ has no real roots. Find the possible values of k.	