

8th November



Corbettmaths

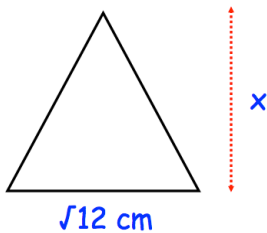
Show

$$2x^3 + 3x^2 - 4x + 7 = 0$$

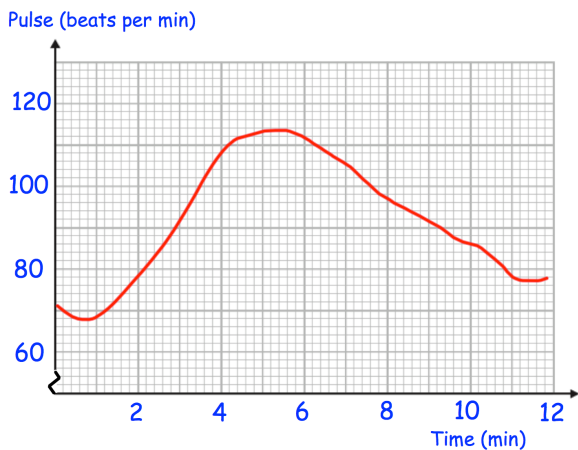
has a solution between -3 and -2

A particle travels 140m in 6.4 seconds. Both measurements are given to 2 significant figures.

Find the upper bound for the speed of the particle



The triangle below has an area of $2\sqrt{6}$ cm². Find the height of the triangle, x. Give your answer as a simplified surd.



Work out the rate at which the pulse is increasing at four minutes. Include units.

Work out the rate at which the pulse is decreasing at six minutes. Include units.