



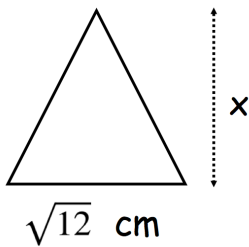
Show

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

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

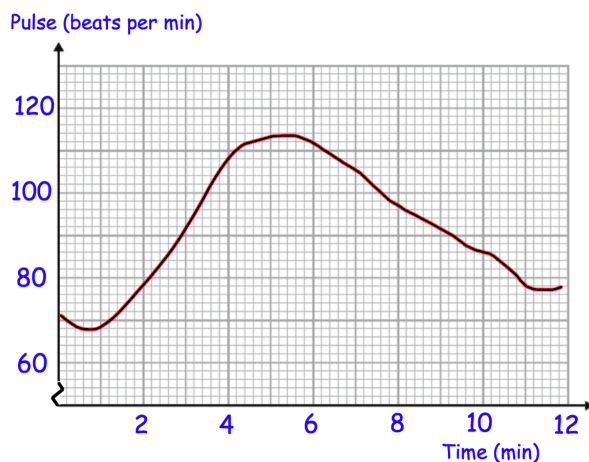


The triangle has an area of

$$2\sqrt{6} \text{ cm}^2$$

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 two minutes.
Include units.

Work out the average rate at which the pulse is decreasing between six minutes and ten minutes.
Include units.