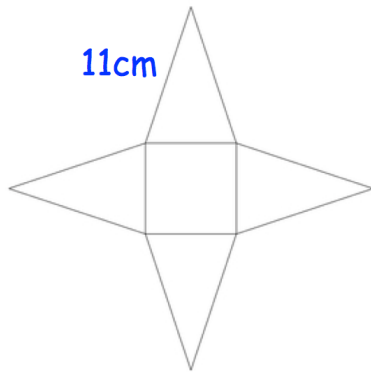




$$c : d : e = 9 : 7 : 2$$

Work out $2c + e : 2d$
in its simplest form.



Shown is the net of a square based pyramid.

The area of the base is 64cm^2

Calculate the surface area of the pyramid

Calculate the volume of the pyramid

$$f(x) = x^2 + 2x + 1$$

Show that

$$f(x + 2) - f(x) = 4x + 8$$

One solution of a quadratic equation in the form

$$y = ax^2 + bx + c$$

is

$$x = \frac{3 + \sqrt{65}}{4}$$

Find possible values of a, b and c.