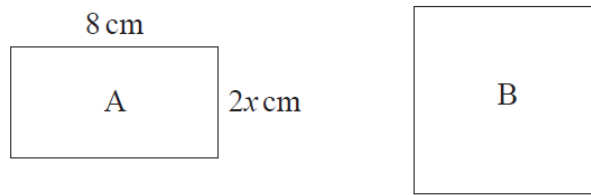


~~124~~ = ~~44~~ days to go!

9 Solve the equation $x^2 - x - 12 = 0$

Answer _____ [3]

16 A is a rectangle of length 8 cm and width $2x$ cm, and B is a square.



The perimeters of the rectangle and the square are equal.

(a) Write down an expression in terms of x for the length of the side of the square B.

Answer _____ [2]

The area of the square is 4 cm^2 more than the area of the rectangle.

(b) (i) Write down an equation satisfied by x and show that it simplifies to

$$x^2 - 8x + 12 = 0$$

[3]

(ii) Solve this equation, giving the two possible values of x .

Answer _____ [2]