

Harder Solving Quadratics with the

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1) Harder Solving Quadratics with the Formula: Easier

1. Solve $3x^2 + 7x - 13 = 0$
Give your solutions correct to 2 decimal places.

$x = \dots\dots\dots$ Or $x = \dots\dots\dots$

(3 marks)

2. Solve the equation

$$2x^2 + 6x - 95 = 0$$

Give your solutions correct to 3 significant figures.

$x = \dots\dots\dots$ Or $x = \dots\dots\dots$

(3 marks)

1) Harder Solving Quadratics with the Formula: Medium

1) The product of two consecutive numbers is 1806. Let n be the smaller number.

a) Show that $n^2 + n - 1806 = 0$

(1 Mark)

b) Find the value of n .

(2 Marks)

2) The Hypotenuse of a right angle triangle is 6 cm longer than the base. The height is 3cm longer than the base. Find the length of all the sides.

(4 Marks)

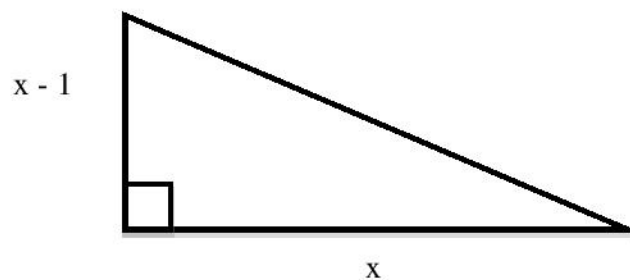
1) Harder Solving Quadratics with the Formula: Harder

- 3) Show that the equation has no solution:

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

(3 Marks)

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- 4) Here is a right angle triangle. The area of the triangle is 4 cm^2 .



All measurements are in centimetres.

Find the perimeter of the triangle. Give your answer correct to 3 significant figures.

(4 Marks)