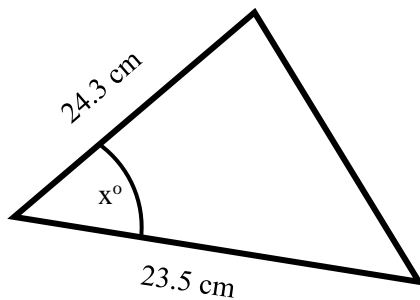**GCSE – Year 10**
Weekly Tutorial 06
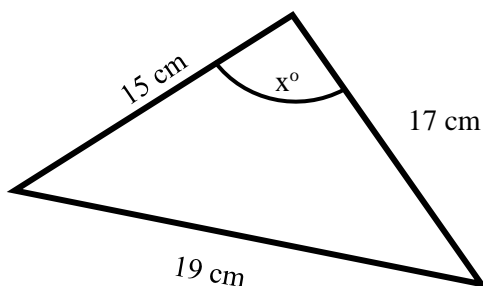
mathsalpha.com

1. Solve the equation, $\frac{3}{x+1} = x - 5$ by using the quadratic formula. Give the answer in exact form.

2. Solve the equation, $x^2 - 8x - 7 = 0$ by the completing the square. Give the answer in exact form.

3. Find the solutions to 2 decimal places of the equation, $2x^2 - 3x - 4 = 0$ by completing the square.

4.

Area of the triangle is 268.3 cm² Find the angle xº.
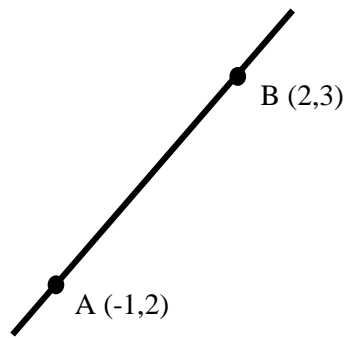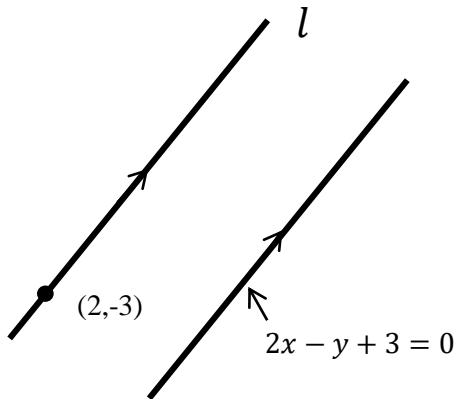
5.

Find the angle xº.

6. In a sale normal price of a TV reduced by 25%. The normal price of the TV is reduced by £ 120. Work out the Normal price of the TV.

7. Show that the recurring decimal $0.\dot{3}9\dot{6} = \frac{44}{111}$

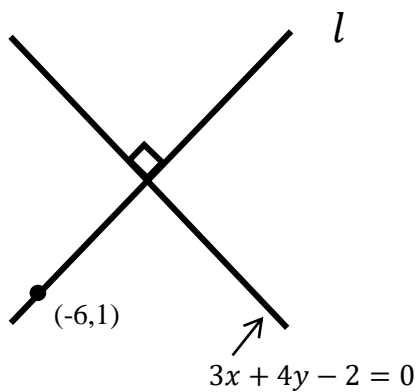Dharana Siriwarnage, PGD (maths), BSc

8.

B (2,3)

A (-1,2)

Find the length of line segment AB.

9.

l

(2,-3)

$2x - y + 3 = 0$

Find the equation of line l.

10.

l

(-6,1)

$3x + 4y - 2 = 0$

Find the equation of line l in the form, $ax + by + c = 0$. Where a, b and c are integers.

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