Name:

Level 2 Further Maths





Ensure you have: Pencil or pen

Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Check your answers seem right.
- 3. Always show your workings

Revision for this topic

www.corbettmaths.com/more/further-maths/



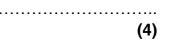
1. Simplify $\sqrt{300} - 2\sqrt{300}$	1.	Simplify	$\sqrt{300}-2\sqrt{300}$
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(2)

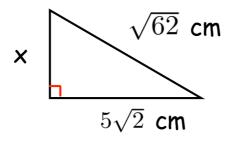
Expand and simplify fully $(3+4\sqrt{3})(5-\sqrt{3})$ 2.

(2)

3. Expand and simplify $(3\sqrt{2}-1)^3$



4. Shown below is a right angled triangle.



Find the length of the side labelled \boldsymbol{x} .

Give your answer in the form $a\sqrt{b}$

 cm
(4)

5. Solve
$$\sqrt{200} + \sqrt{18} = \sqrt{y} + \sqrt{98}$$

6. Work out the value of y such that
$$\frac{\sqrt{15} \times \sqrt{y}}{\sqrt{5}} = 3\sqrt{11}$$

7. Solve $\sqrt{112} + y\sqrt{28} = 5\sqrt{7}$

8. Simplify this ratio fully

$$\sqrt{20}:\sqrt{45}:\sqrt{180}$$

(3)