

SURDS

EXAM PAST PAPER QUESTIONS

1)

Express $\sqrt{18} - \sqrt{2} + \sqrt{72}$ as a surd in its simplest form.

3

2)

Express $\sqrt{12} + 5\sqrt{3} - \sqrt{27}$ as a surd in its simplest form.

3

3)

Express $\frac{12}{\sqrt{2}}$ with a rational denominator.

Give your answer in its simplest form.

2

4)

Express $\frac{\sqrt{40}}{\sqrt{2}}$ as a surd in its simplest form.

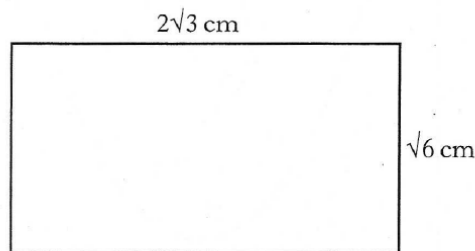
2

5)

Simplify $\sqrt{2}(\sqrt{3} + \sqrt{2}) - \sqrt{6}$.

2

6)



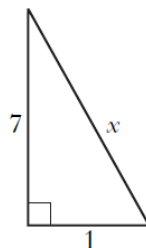
The rectangle above has length $2\sqrt{3}$ centimetres and breadth $\sqrt{6}$ centimetres.
Calculate the area of the rectangle.

Express your answer as a surd in its simplest form.

3

7)

A right-angled triangle is shown below.



Using Pythagoras' Theorem, find x .

Express your answer as a surd in its simplest form.

3