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## Surds | Past Exam Question | C1 June 2010

Q1

### A-Level Edexcel Core Maths

Write  $\sqrt{75} - \sqrt{27}$  in the form  $k\sqrt{3}$

$$\sqrt{ab} = \sqrt{a}\sqrt{b}$$

$$\sqrt{75} - \sqrt{27} = \sqrt{25 \times 3} - \sqrt{9 \times 3}$$

$$= \sqrt{25}\sqrt{3} - \sqrt{9}\sqrt{3}$$

$$= 5\sqrt{3} - 3\sqrt{3}$$

$$= 2\sqrt{3}$$

$$\equiv k\sqrt{3}$$

where  $k = 2$



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