

INDICES & SURDS

① Given $k = \frac{1}{\sqrt{3}}$ and that $p = \frac{1+k}{1-k}$ express in its simplest surd form

- (i) p
(ii) $p - \frac{1}{p}$

THE MATHS CENTRE

①

$$k = \frac{1}{\sqrt{3}} \quad p = \frac{1+k}{1-k}$$

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$$i) \quad p = \frac{(1 + \frac{1}{\sqrt{3}})}{(1 - \frac{1}{\sqrt{3}})} = \frac{(\frac{\sqrt{3}+1}{\sqrt{3}})}{(\frac{\sqrt{3}-1}{\sqrt{3}})} = \left(\frac{\sqrt{3}+1}{\cancel{\sqrt{3}}}\right) \left(\frac{\cancel{\sqrt{3}}}{\sqrt{3}-1}\right) = \frac{\sqrt{3}+1}{\sqrt{3}-1}$$

$$= \frac{(\sqrt{3}+1)(\sqrt{3}+1)}{(\sqrt{3}-1)(\sqrt{3}+1)}$$

$$ii) \quad p - \frac{1}{p} = (2+\sqrt{3}) - \frac{1}{(2+\sqrt{3})}$$

$$= \frac{(2+\sqrt{3})^2 - 1}{2+\sqrt{3}}$$

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$$= \frac{3+1+2\sqrt{3}}{3-1} = \frac{4+2\sqrt{3}}{2}$$

$$= \frac{4+3+4\sqrt{3}-1}{2+\sqrt{3}} = \frac{6+4\sqrt{3}}{2+\sqrt{3}}$$

$$= \frac{\cancel{2}(2+\sqrt{3})}{\cancel{2}} \quad \times$$

$$= \frac{(6+4\sqrt{3})(2-\sqrt{3})}{(2+\sqrt{3})(2-\sqrt{3})} = \frac{\cancel{12} - \cancel{4\sqrt{3}} + 8\sqrt{3} - 6\sqrt{3}}{4-3}$$

$$= 2\sqrt{3} \quad \times$$

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