

# Surds: Rationalising the Denominator

$$\frac{2}{\sqrt{3}+1}$$

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

$$\frac{2\sqrt{3}-2}{2}$$

$$\frac{2\sqrt{3}-2}{2}$$

$$\sqrt{3}-1$$

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## Indices

$$9^{\frac{1}{2}} = 3$$

$$9^{-1} = \frac{1}{9}$$

$$\sqrt{x} = x^{\frac{1}{2}}$$

$$\frac{1}{x^2} = x^{-2}$$