

Surds

- Express $\sqrt{50}$ as a surd in its simplest form. 1 KU
- Simplify $\frac{\sqrt{72}}{\sqrt{3}}$ 2 KU
- Simplify $\sqrt{48} - 3\sqrt{3}$ 2 KU
- Express $\sqrt{32} - \sqrt{2}$ as a surd in its simplest form. 2 KU
- Express $\sqrt{72} - \sqrt{2} + \sqrt{50}$ as a surd in its simplest form 3 KU
- Express $\sqrt{32} + \sqrt{8}$ as a surd in its simplest form. 3 KU
- Multiply out the brackets $\sqrt{2}(\sqrt{6} - \sqrt{2})$
Express your answer as a **surd** in its simplest form. 2 KU
- $f(x) = 3\sqrt{x}$
Find the exact value of $f(12)$, giving your answer as a **surd, in its simplest form.** 2 KU
- Express $\frac{3}{\sqrt{5}}$ as a fraction with a rational denominator. 2 KU
- Simplify $\frac{\sqrt{3}}{\sqrt{24}}$ Express your answer as a fraction with a rational denominator 3 KU
- $f(x) = \frac{3}{\sqrt{x}}$ Find the **exact** value of $f(2)$
Give your answer **as a fraction** with a rational denominator. 2 KU
- A function f is given by $f(x) = 4^x$
Find the value of $f\left(\frac{3}{2}\right)$ 2 KU