

1. Write each power in the form a^b :

$$(2^3)^4$$

$$(2^{-3})^4$$

$$(3^{\frac{1}{2}})^{12}$$

$$(3^6)^{\frac{1}{2}}$$

$$(22^{-3})^{\frac{1}{4}}$$

$$(6^{-\frac{3}{2}})^{-\frac{4}{7}}$$

2. Write each power in the form a^b :

$$(13^{\frac{11}{2}})^{-\frac{1}{2}}$$

$$\sqrt{33^6}$$

$$(\sqrt{14})^{\frac{18}{7}}$$

$$\sqrt[3]{23^{\frac{1}{2}}}$$

$$(97^3)^{-\frac{1}{6}}$$

$$(22^{-\frac{3}{41}})^{-\frac{1}{4}}$$