Practice worksheet | Exponential relationships

Connecting fractional powers with roots

Name: _____ Date: _____

6 questions | 13 marks

1. Write $\sqrt{x}$ as a power, where $x \geq 0$. [2 marks]

2. Write $a^{\frac{4}{3}}$ in root notation for $a > 0$. [2 marks]

3. Evaluate $125^{\frac{2}{3}}$. [2 marks]

4. Evaluate $16^{-\frac{3}{4}}$. [2 marks]

5. Evaluate $\sqrt[3]{-216}$. [2 marks]

6. Explain why $(-9)^{\frac{1}{2}}$ is not a real number. [3 marks]