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

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

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

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

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