Practice worksheet | Exponential relationships

Exponential equations

Name: _____ Date: _____

6 questions | 14 marks

1. Solve $2^x = 32$. [2 marks]

2. Solve $9^x = 27$. [2 marks]

3. Solve $5^{x-1} = 125$. [2 marks]

4. Solve $(\frac{1}{2})^x = 8$. [2 marks]

5. Solve $2^x = 7$ to 3 decimal places. [3 marks]

6. Explain whether $4^x + 2 = 1$ has a real solution. [3 marks]