Practice worksheet | Exponential relationships

Exponential tables and graphs

Name: _____ Date: _____

6 questions | 14 marks

1. Find y when $x = -1$ in $y = 4^x$. [2 marks]

2. Find the y-intercept of $y = 3 \times 2^x$. [2 marks]

3. State whether $y = 0.7^x$ increases or decreases as x increases. [2 marks]

4. For $y = 2^x$, calculate the outputs at $x = \frac{1}{2}$ and $x = \frac{3}{2}$ exactly. [3 marks]

5. State the domain and range of $y = 5^x$. [2 marks]

6. A culture starts with 4 units and doubles each hour. Write its model and find its size after 3 hours. [3 marks]