Practice worksheet | Exponential relationships

Comparing linear/quadratic/exponential patterns

Name: _____ Date: _____

6 questions | 13 marks

1. Classify $3, 6, 9, 12$ at equal steps among linear, quadratic and exponential. [2 marks]

2. Classify $2, 4, 8, 16$ at equal steps. [2 marks]

3. Classify $1, 4, 9, 16$ at equal steps. [2 marks]

4. Write an exponential rule for outputs $7, 14, 28, 56$ at $n = 0, 1, 2, 3$. [2 marks]

5. Find the next two values if $10, 20, 40$ continues with the same multiplicative rule. [2 marks]

6. A model doubles daily. Why is adding 20 each day not a valid general rule if it starts at 20? [3 marks]