Practice worksheet | Linear and exponential models

Constructing and interpreting straight-line models

Name: _____ Date: _____

6 questions | 12 marks

1. Find the line through $(0, 6)$ and $(4, 18)$. [2 marks]

2. Find the line through $(3, 8)$ and $(7, 20)$. [2 marks]

3. A machine has a setup cost of 250 dollars and costs 7 dollars per item. Model total cost. [2 marks]

4. A tank contains 80 L and loses 5 L/min. Write the rule and physical time domain. [2 marks]

5. Explain why $d = 12t$ passes through the origin when d is distance travelled and t is elapsed time. [2 marks]

6. Are $(0, 2), (1, 5), (2, 10)$ exactly linear? Explain. [2 marks]