Practice worksheet | Financial mathematics

Interpreting linear versus quadratic financial models

Name: _____ Date: _____

6 questions | 15 marks

1. Classify $C = 12 + 7n$ and state the extra cost per item. [2 marks]

2. Classify $C = n^2 + 2n + 8$. [2 marks]

3. Find $C = n^2 + 2n + 8$ for $n = 0, 1, 2, 3$. [3 marks]

4. Expand the revenue rule $R = n(20 - n)$. [2 marks]

5. For $R = n(20 - n)$, find revenue at $n = 6$ and the price per item. [3 marks]

6. Why is $n = 25$ unsuitable for a selling-price model $R = n(20 - n)$? [3 marks]