Answers sample questions on quiz review

1) Enter \( =\text{SQRT(A2+1)} \) in cell B2 and \( =\text{SQRT(A3+1)} \) in cell B3

2) [Graph image]

3) \( C(q) = \begin{cases} 
0.053q + 24 & \text{if } q \leq 200 \\
0.049q + 24.8 & \text{if } q > 200 
\end{cases} \)

4) Quadratic, or another polynomial. Because the prices decrease quickly in the beginning, then decrease more slowly later on

5) a) \( D(q) = -0.01q^2 + 40q \)
   b) \( P(q) = -0.01q^3 + 36q - 4900 \)
   c) -3125 dollars
   d) 154 units or 3446 units

6) 6

7) a) -3   b) 33   c) 29

8) a) -5   b) At 2,000 units, Revenue is decreasing 5 million dollars per thousand units.