Name: _____

PRACTICE Quiz (13.1-13.5)

1. **(7 points)** Assume that the following sequence is arithmetic. Find the sum using the appropriate formulas:
   $$4 + 10 + 16 + 22 + \cdots + 484$$

2. **(7 points)** Assume that the following sequence is geometric. Find the infinite sum using the appropriate formulas:
$$2 - \frac{2}{5} + \frac{2}{25} - \frac{2}{125} + \cdots$$

2. **(7 points)** Assume that the following sequence is geometric. Find the infinite sum using the appropriate formulas:
$$2 - \frac{2}{5} + \frac{2}{25} - \frac{2}{125} + \cdots$$

3. **(3 points)** Let $a_1 = 3$ and $a_n = a_{n-1} + 5$.

Then $a_3 = $ _____

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