

## Summation Notation Practice

Name \_\_\_\_\_

Algebra II

Hour \_\_\_\_\_

Create the sequence represented by the summation notation.

1. 
$$\sum_{n=1}^{10} 2n - 5$$

2. 
$$\sum_{n=1}^7 -3n - 2$$

3. 
$$\sum_{n=1}^6 -6 + 5n$$

4. 
$$\sum_{n=1}^{10} 2 \cdot 4^{n-1}$$

5. 
$$\sum_{n=1}^7 -1 \cdot 3^{n-1}$$

6. 
$$\sum_{n=1}^5 3 \cdot \left(\frac{1}{2}\right)^{n-1}$$

Evaluate each series represented by the summation notation.

7. 
$$\sum_{n=1}^{10} -2n + 5$$

8. 
$$\sum_{n=1}^7 \frac{1}{2}n + 5$$

9. 
$$\sum_{n=5}^{16} -6 + 5n$$

10. 
$$\sum_{n=1}^{10} 2 \cdot 2^{n-1}$$

11. 
$$\sum_{n=10}^{17} -1 \cdot 3^{n-1}$$

12. 
$$\sum_{n=1}^5 -2 \cdot \left(\frac{1}{2}\right)^{n-1}$$