

Practice 11-5A

Name _____ HR _____

Determine whether each series is *arithmetic* or *geometric*. Then evaluate the series to the given term.

1. $2 + 5 + 8 + 11 + \dots; S_9$

2. $\frac{1}{8} + \frac{1}{16} + \frac{1}{32} + \frac{1}{64} + \dots; S_8$

3. $-3 + 6 - 12 + 24 - \dots; S_{10}$

4. $-2 + 2 + 6 + 10 + \dots; S_{12}$

Evaluate the finite series for the specified number of terms.

5. $1 + 2 + 4 + \dots; n = 8$

6. $4 + 12 + 36 + \dots; n = 6$

7. $3 + 6 + 12 + \dots; n = 7$

8. $7 - 35 + 175 - \dots; n = 5$

9. $-5 - 10 - 20 - \dots; n = 11$

10. $1 - 3 + 9 - 27 \dots; n = 8$