Practice Sheet on 11-4 (B)

Name: _____

Hour: _____

Summation Notation

For each sum, find the number of terms, the first term, and the last term. Then evaluate the series.

19. $\sum_{n=1}^{5} (2n - 1)$

20. $\sum_{n=1}^{5} (-2n - 1)$

21. $\sum_{n=3}^{8} (7 - n)$

22. $\sum_{n=1}^{5} (0.2n - 0.2)$

23. $\sum_{n=2}^{10} \frac{4n}{3}$

24. $\sum_{n=5}^{10} (20 - n)$

Tell whether each list is a *sequence* or a *series*. Then tell whether it is *finite* or *infinite*.

25. 1, 2, 4, 8, 16, 32, . . .

26. 1, 0.5, 0.25, 0.125, 0.0625

27. 5 + 10 + . . . + 25

29. $\frac{4}{3}, \frac{7}{3}, \frac{10}{3}, \frac{13}{3}, \frac{16}{3}, \ldots$