

Name : _____

Score : _____

Teacher : _____

Date : _____

General Series

Rewrite each series as a sum.

1) $\sum_{a=1}^4 (4a^2 - 5)$

2) $\sum_{a=1}^4 (3a)$

3) $\sum_{a=0}^4 (4a - 9)$

4) $\sum_{a=1}^5 (85 - a)$

Evaluate each series.

5) $\sum_{a=0}^4 (82 - a^2)$

6) $\sum_{a=1}^4 (24 - 2a^2)$

7) $\sum_{a=1}^6 (a^2)$

8) $\sum_{a=0}^4 (2a^2 + 9a)$

Rewrite each series in sigma notation.

9) $1 + 2 + 3 + 4 + 5 + 6$

10) $6 + 12 + 24 + 48$

11) $2 + 4 + 8 + 16 + 32$

12) $35 + 33 + 31 + 29 + 27$



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General Series

Rewrite each series as a sum.

1)
$$\sum_{a=1}^4 (4a^2 - 5)$$

$$-1 + 11 + 31 + 59$$

2)
$$\sum_{a=1}^4 (3a)$$

$$3 + 6 + 9 + 12$$

3)
$$\sum_{a=0}^4 (4a - 9)$$

$$-9 + -5 + -1 + 3 + 7$$

4)
$$\sum_{a=1}^5 (85 - a)$$

$$84 + 83 + 82 + 81 + 80$$

Evaluate each series.

5)
$$\sum_{a=0}^4 (82 - a^2)$$

$$380$$

6)
$$\sum_{a=1}^4 (24 - 2a^2)$$

$$36$$

7)
$$\sum_{a=1}^6 (a^2)$$

$$91$$

8)
$$\sum_{a=0}^4 (2a^2 + 9a)$$

$$150$$

Rewrite each series in sigma notation.

9)
$$1 + 2 + 3 + 4 + 5 + 6$$

$$\sum_{a=1}^6 (a)$$

10)
$$6 + 12 + 24 + 48$$

$$\sum_{a=1}^4 (3 \cdot 2^a)$$

11)
$$2 + 4 + 8 + 16 + 32$$

$$\sum_{a=1}^5 (2^a)$$

12)
$$35 + 33 + 31 + 29 + 27$$

$$\sum_{a=1}^5 (37 - 2a)$$

