Arithmetic & Geometric Series · 1

Find the sum of the first 18 terms of the arithmetic series $12 + 17 + 22 + \ldots$.

Arithmetic & Geometric Series · 2

Find the sum of the first 4 terms of the geometric series $1 - 3 + 9 - \ldots$.

Arithmetic & Geometric Series · 3

Evaluate the sum.

$$\sum_{k=1}^{9} (k + 4)$$

Arithmetic & Geometric Series · 4

Find the sum of the infinite geometric series $9 + 6 + 4 + \ldots$.

Arithmetic & Geometric Series · 5

Evaluate the sum.

$$\sum_{k=1}^{5} 4 \cdot 2^{k-1}$$

Arithmetic & Geometric Series · 6

Find the sum of the infinite geometric series $32 + 24 + 18 + \ldots$.

Arithmetic & Geometric Series · 7

Find the sum of the first 29 terms of the arithmetic series $-3 + 3 + 9 + \ldots$.

Arithmetic & Geometric Series · 8

Find the sum of the first 6 terms of the geometric series $3 + 6 + 12 + \ldots$.

Arithmetic & Geometric Series · 2

**ANSWER**

**-20**

Arithmetic & Geometric Series · 1

**ANSWER**

**981**

Arithmetic & Geometric Series · 4

**ANSWER**

**27**

Arithmetic & Geometric Series · 3

**ANSWER**

**81**

Arithmetic & Geometric Series · 6

**ANSWER**

**128**

Arithmetic & Geometric Series · 5

**ANSWER**

**124**

Arithmetic & Geometric Series · 8

**ANSWER**

**189**

Arithmetic & Geometric Series · 7

**ANSWER**

**2349**

Arithmetic & Geometric Series · 9

Find the sum of the first 19 terms of the arithmetic series $10 + 7 + 4 + \ldots$.

Arithmetic & Geometric Series · 10

Find the sum of the first 8 terms of the geometric series $1 - 2 + 4 - \ldots$.

Arithmetic & Geometric Series · 11

Evaluate the sum.

$$\sum_{k=1}^{13} (4k + 6)$$

Arithmetic & Geometric Series · 12

Find the sum of the infinite geometric series $18 - 6 + 2 - \ldots$.

Arithmetic & Geometric Series · 13

Evaluate the sum.

$$\sum_{k=1}^{3} 3 \cdot 3^{k-1}$$

Arithmetic & Geometric Series · 14

Find the sum of the infinite geometric series $18 + 12 + 8 + \ldots$.

Arithmetic & Geometric Series · 15

Find the sum of the first 10 terms of the arithmetic series $-1 + 5 + 11 + \ldots$.

Arithmetic & Geometric Series · 16

Find the sum of the first 6 terms of the geometric series $2 + 8 + 32 + \ldots$.

Arithmetic & Geometric Series · 10

**ANSWER**

**-85**

Arithmetic & Geometric Series · 9

**ANSWER**

**-323**

Arithmetic & Geometric Series · 12

**ANSWER**

$$\frac{27}{2}$$

Arithmetic & Geometric Series · 11

**ANSWER**

**442**

Arithmetic & Geometric Series · 14

**ANSWER**

**54**

Arithmetic & Geometric Series · 13

**ANSWER**

**39**

Arithmetic & Geometric Series · 16

**ANSWER**

**2730**

Arithmetic & Geometric Series · 15

**ANSWER**

**260**

Arithmetic & Geometric Series · 17

Find the sum of the first 8 terms of the arithmetic series $12 + 17 + 22 + \ldots$.

Arithmetic & Geometric Series · 18

Find the sum of the first 4 terms of the geometric series $2 + 8 + 32 + \ldots$.

Arithmetic & Geometric Series · 19

Evaluate the sum.

$$\sum_{k=1}^{17} (4k - 2)$$

Arithmetic & Geometric Series · 20

Find the sum of the infinite geometric series $48 + 36 + 27 + \ldots$.

Arithmetic & Geometric Series · 21

Evaluate the sum.

$$\sum_{k=1}^{5} 3 \cdot 2^{k-1}$$

Arithmetic & Geometric Series · 22

Find the sum of the infinite geometric series $12 - 6 + 3 - \ldots$.

Arithmetic & Geometric Series · 23

Find the sum of the first 17 terms of the arithmetic series $10 + 7 + 4 + \ldots$.

Arithmetic & Geometric Series · 24

Find the sum of the first 7 terms of the geometric series $5 - 10 + 20 - \ldots$.

Arithmetic & Geometric Series · 18

**ANSWER**

**170**

Arithmetic & Geometric Series · 17

**ANSWER**

**236**

Arithmetic & Geometric Series · 20

**ANSWER**

**192**

Arithmetic & Geometric Series · 19

**ANSWER**

**578**

Arithmetic & Geometric Series · 22

**ANSWER**

**8**

Arithmetic & Geometric Series · 21

**ANSWER**

**93**

Arithmetic & Geometric Series · 24

**ANSWER**

**215**

Arithmetic & Geometric Series · 23

**ANSWER**

**-238**