Arithmetic & Geometric Series · 1

Find the sum of the first 15 terms of the arithmetic series -5 + 1 + 7 + ...

Arithmetic & Geometric Series · 2

Find the sum of the first 6 terms of the geometric series 4 + 12 + 36 + ...

Arithmetic & Geometric Series · 3

Evaluate the sum.

$$\sum_{k=1}^{6} (5k - 4)$$

Arithmetic & Geometric Series · 4

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

Arithmetic & Geometric Series · 5

Evaluate the sum.

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

Arithmetic & Geometric Series · 6

Find the sum of the infinite geometric series 75 + 30 + 12 + ...

Arithmetic & Geometric Series · 7

Find the sum of the first 10 terms of the arithmetic series 8 + 15 + 22 + ...

Arithmetic & Geometric Series · 8

Find the sum of the first 8 terms of the geometric series 3 - 6 + 12 - ....

Arithmetic & Geometric Series · 2

ANSWER

1456

Arithmetic & Geometric Series · 1

ANSWER

555

Arithmetic & Geometric Series · 4

ANSWER

128

Arithmetic & Geometric Series · 3

ANSWER

81

Arithmetic & Geometric Series · 6

ANSWER

125

Arithmetic & Geometric Series · 5

ANSWER

605

Arithmetic & Geometric Series · 8

ANSWER

-255

Arithmetic & Geometric Series · 7

ANSWER

395

Arithmetic & Geometric Series · 9

Find the sum of the first 28 terms of the arithmetic series -3 - 7 - 11 - ....

Arithmetic & Geometric Series · 10

Evaluate the sum.

$$\sum_{k=1}^{9} (3k - 1)$$

Arithmetic & Geometric Series · 11

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

Arithmetic & Geometric Series · 12

Evaluate the sum.

$$\sum_{k=1}^{4} 3 \cdot 3^{k-1}$$

Arithmetic & Geometric Series · 13

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

Arithmetic & Geometric Series · 14

Find the sum of the first 17 terms of the arithmetic series 6 + 2 - 2 - ....

Arithmetic & Geometric Series · 15

Find the sum of the first 4 terms of the geometric series 4 + 12 + 36 + ...

Arithmetic & Geometric Series · 16

Find the sum of the first 6 terms of the arithmetic series 4 + 7 + 10 + ...

Arithmetic & Geometric Series · 10

ANSWER

126

Arithmetic & Geometric Series · 9

ANSWER

-1596

Arithmetic & Geometric Series · 12

ANSWER

120

Arithmetic & Geometric Series · 11

ANSWER

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

Arithmetic & Geometric Series · 14

ANSWER

-442

Arithmetic & Geometric Series · 13

ANSWER

8

Arithmetic & Geometric Series · 16

ANSWER

69

Arithmetic & Geometric Series · 15

ANSWER

160

Arithmetic & Geometric Series · 17

Find the sum of the first 6 terms of the geometric series $3 - 9 + 27 - \ldots$.

Arithmetic & Geometric Series · 18

Evaluate the sum.

$$\sum_{k=1}^{6} -2k$$

Arithmetic & Geometric Series · 19

Evaluate the sum.

$$\sum_{k=1}^{6} 3 \cdot 2^{k-1}$$

Arithmetic & Geometric Series · 20

Find the sum of the infinite geometric series $16 + 12 + 9 + \ldots$.

Arithmetic & Geometric Series · 21

Find the sum of the first 30 terms of the arithmetic series $17 + 20 + 23 + \ldots$.

Arithmetic & Geometric Series · 22

Find the sum of the first 5 terms of the geometric series $4 + 8 + 16 + \ldots$.

Arithmetic & Geometric Series · 23

Find the sum of the first 21 terms of the arithmetic series $-5 + 0 + 5 + \ldots$.

Arithmetic & Geometric Series · 24

Find the sum of the first 4 terms of the geometric series $5 + 20 + 80 + \ldots$.

Arithmetic & Geometric Series · 18

ANSWER

-42

Arithmetic & Geometric Series · 17

ANSWER

-546

Arithmetic & Geometric Series · 20

ANSWER

64

Arithmetic & Geometric Series · 19

ANSWER

189

Arithmetic & Geometric Series · 22

ANSWER

124

Arithmetic & Geometric Series · 21

ANSWER

1815

Arithmetic & Geometric Series · 24

ANSWER

425

Arithmetic & Geometric Series · 23

ANSWER

945