Arithmetic & Geometric Series · 1

Find the sum of the first 10 terms of the arithmetic series

$-4 - 1 + 2 + \ldots$

Arithmetic & Geometric Series · 2

Evaluate the sum.

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

Arithmetic & Geometric Series · 3

Find the sum of the first 7 terms of the arithmetic series

$9 + 11 + 13 + \ldots$

Arithmetic & Geometric Series · 4

Find the sum of the first 6 terms of the geometric series

$5 + 10 + 20 + \ldots$

Arithmetic & Geometric Series · 5

Find the sum of the first 9 terms of the arithmetic series

$1 + 6 + 11 + \ldots$

Arithmetic & Geometric Series · 6

Evaluate the sum.

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

Arithmetic & Geometric Series · 7

Find the sum of the first 11 terms of the arithmetic series

$10 + 12 + 14 + \ldots$

Arithmetic & Geometric Series · 8

Find the sum of the first 5 terms of the geometric series

$1 + 3 + 9 + \ldots$

Arithmetic & Geometric Series · 2

ANSWER

-12

Arithmetic & Geometric Series · 1

ANSWER

95

Arithmetic & Geometric Series · 4

ANSWER

315

Arithmetic & Geometric Series · 3

ANSWER

105

Arithmetic & Geometric Series · 6

ANSWER

30

Arithmetic & Geometric Series · 5

ANSWER

189

Arithmetic & Geometric Series · 8

ANSWER

121

Arithmetic & Geometric Series · 7

ANSWER

220

Arithmetic & Geometric Series · 9

Find the sum of the first 12 terms of the arithmetic series

$4 + 9 + 14 + \ldots$

Arithmetic & Geometric Series · 10

Find the sum of the first 6 terms of the geometric series

$3 + 9 + 27 + \ldots$

Arithmetic & Geometric Series · 11

Evaluate the sum.

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

Arithmetic & Geometric Series · 12

Find the sum of the first 6 terms of the geometric series

$2 + 6 + 18 + \ldots$

Arithmetic & Geometric Series · 13

Find the sum of the first 11 terms of the arithmetic series

$5 + 7 + 9 + \ldots$

Arithmetic & Geometric Series · 14

Evaluate the sum.

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

Arithmetic & Geometric Series · 15

Evaluate the sum.

$$\sum_{k=1}^{7} (3k - 4)$$

Arithmetic & Geometric Series · 16

Find the sum of the first 4 terms of the geometric series

$3 + 9 + 27 + \ldots$

Arithmetic & Geometric Series · 10

ANSWER

1092

Arithmetic & Geometric Series · 9

ANSWER

378

Arithmetic & Geometric Series · 12

ANSWER

728

Arithmetic & Geometric Series · 11

ANSWER

54

Arithmetic & Geometric Series · 14

ANSWER

155

Arithmetic & Geometric Series · 13

ANSWER

165

Arithmetic & Geometric Series · 16

ANSWER

120

Arithmetic & Geometric Series · 15

ANSWER

56

Arithmetic & Geometric Series · 17

Find the sum of the first 9 terms of the arithmetic series

$11 + 18 + 25 + \ldots$

Arithmetic & Geometric Series · 18

Find the sum of the first 7 terms of the geometric series

$5 + 10 + 20 + \ldots$

Arithmetic & Geometric Series · 19

Evaluate the sum.

$$\sum_{k=1}^{6} (5k - 2)$$

Arithmetic & Geometric Series · 20

Find the sum of the first 6 terms of the geometric series

$5 + 15 + 45 + \ldots$

Arithmetic & Geometric Series · 21

Find the sum of the first 8 terms of the arithmetic series

$4 + 1 - 2 - \ldots$

Arithmetic & Geometric Series · 22

Evaluate the sum.

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

Arithmetic & Geometric Series · 23

Evaluate the sum.

$$\sum_{k=1}^{10} 2k$$

Arithmetic & Geometric Series · 24

Find the sum of the first 6 terms of the geometric series

$4 + 12 + 36 + \ldots$

Arithmetic & Geometric Series · 18

ANSWER

635

Arithmetic & Geometric Series · 17

ANSWER

351

Arithmetic & Geometric Series · 20

ANSWER

1820

Arithmetic & Geometric Series · 19

ANSWER

93

Arithmetic & Geometric Series · 22

ANSWER

160

Arithmetic & Geometric Series · 21

ANSWER

-52

Arithmetic & Geometric Series · 24

ANSWER

1456

Arithmetic & Geometric Series · 23

ANSWER

110