

Arithmetic and Geometric Means

Date _____ Period _____

Find the missing term or terms in each arithmetic sequence.

1) ..., 29, ____, -31, ...

2) ..., -20, ____, -40, ...

3) ..., 13, ____, 7, ...

4) ..., -23, ____, -3, ...

5) ..., 9, ____, 3, ...

6) ..., 36, ____, 56, ...

7) ..., -16.3, ____, -20.5, ...

8) ..., -30, ____, 30, ...

9) ..., $-\frac{4}{7}$, ____, $-\frac{68}{21}$, ...

10) ..., 32, ____, ____, ____, 68, ...

11) ..., $\frac{3}{5}$, ____, ____, ____, $\frac{29}{15}$, ...

12) ..., 10, ____, ____, ____, 130, ...

13) ..., -7.7, ____, ____, -16.4, ...

14) ..., 19, ____, ____, -71, ...

Find the missing term or terms in each geometric sequence.

15) ..., -3, ____, -108, ...

16) ..., -2, ____, -18, ...

17) ..., -3, ____, -75, ...

18) ..., 2, ____, 18, ...

19) ..., -2, ____, -8, ...

20) ..., -1, ____, -4, ...

21) ..., 1.5, ____, 6, ...

22) ..., $-\frac{1}{2}$, ____, $-\frac{1}{50}$, ...

23) ..., -1, ____, -16, ...

24) ..., 3125, ____, ____, ____, 5, ...

25) ..., $-\frac{25}{8}$, ____, ____, ____, $-\frac{32}{25}$, ...

26) ..., 1, ____, ____, ____, 16, ...

27) ..., 3, ____, ____, 648, ...

28) ..., -1, ____, ____, -27, ...

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Date _____ Period _____

Find the missing term or terms in each arithmetic sequence.

1) ..., 29, ____, -31, ...

 -1

2) ..., -20, ____, -40, ...

 -30

3) ..., 13, ____, 7, ...

 10

4) ..., -23, ____, -3, ...

 -13

5) ..., 9, ____, 3, ...

 6

6) ..., 36, ____, 56, ...

 46

7) ..., -16.3, ____, -20.5, ...

 -18.4

8) ..., -30, ____, 30, ...

 0

9) ..., $-\frac{4}{7}$, ____, $-\frac{68}{21}$, ...

 $-\frac{40}{21}$

10) ..., 32, ____, ____, ____, 68, ...

 $41, 50, 59$

11) ..., $\frac{3}{5}$, ____, ____, ____, $\frac{29}{15}$, ...

 $\frac{14}{15}, \frac{19}{15}, \frac{8}{5}$

12) ..., 10, ____, ____, ____, 130, ...

 $40, 70, 100$

13) ..., -7.7, ____, ____, -16.4, ...

 $-10.6, -13.5$

14) ..., 19, ____, ____, -71, ...

 $-11, -41$

Find the missing term or terms in each geometric sequence.

15) ..., -3, ____, -108, ...

-18

16) ..., -2, ____, -18, ...

-6

17) ..., -3, ____, -75, ...

-15

18) ..., 2, ____, 18, ...

6

19) ..., -2, ____, -8, ...

-4

20) ..., -1, ____, -4, ...

-2

21) ..., 1.5, ____, 6, ...

3

22) ..., $-\frac{1}{2}$, ____, $-\frac{1}{50}$, ...

$-\frac{1}{10}$

23) ..., -1, ____, -16, ...

-4

24) ..., 3125, ____, ____, ____, 5, ...

625, 125, 25

25) ..., $-\frac{25}{8}$, ____, ____, ____, $-\frac{32}{25}$, ...

$-\frac{5}{2}$, -2, $-\frac{8}{5}$

26) ..., 1, ____, ____, ____, 16, ...

2, 4, 8

27) ..., 3, ____, ____, 648, ...

18, 108

28) ..., -1, ____, ____, -27, ...

-3, -9