

Sequence Problems

1) In geometry sequences, $a_1: -4$, $a_6: -4096$,
sum from 1st term to 6th term

2) $[6, 10, 14, 18, 22, 26, 30, 34, 38, 42, \dots]$ find
Common Difference

3) Multiplying by -4 , and adding 5 , if 1st term
is 41 , find 8th term

4) Multiplying by 4 , and adding 3 , if 1st term
is 7 , find 6th term

5) $[-1, 1, -1, 1, -1, 1, -1, 1, -1, 1, \dots]$ find 9th
term

6) $[-1, -4, -16, -64, -256, -1024, -4096, -16384,$
 $-65536, -262144, \dots]$ find Common Ratio

7) $[-1, 4, -16, 64, -256, 1024, -4096, 16384,$
 $-65536, 262144, \dots]$ find 7th term

8) Multiplying by 4 , and adding -3 , if 1st term
is -15 , find 3th term

Sequence Problems

9) $[-5, 5, -5, 5, -5, 5, -5, 5, -5, 5, \dots]$ find
Common Ratio

10) In Arithmetic sequences, $a_1: 11$, $a_{47}: 425$,
sum from 1st term to 47th term

11) $[-2, 6, 14, 22, 30, 38, 46, 54, 62, 70, \dots]$ find
Common Difference

12) Multiplying by -5 , and adding 0 , if 1st
term is 50 , find 7th term

13) Multiplying by -3 , and adding -4 , if 1st
term is 11 , find 7th term

14) In Arithmetic sequences, sum of 1st term
to 56th term is -1372 and sum of 1st term to
61th term is -1647 find 1st term

15) $[-1, 2, -4, 8, -16, 32, -64, 128, -256, 512, \dots]$
find 8th term

16) Multiplying by -3 , and adding -8 , if 1st
term is 10 , find 8th term

Sequence Problems

17) $[-1, 3, -9, 27, -81, 243, -729, 2187, -6561, 19683, \dots]$ find 6th term

18) $a_1: 2$, Common Difference: -1 , sum from 1st term to 60th term

19) In geometry sequences, $a_1: -32$, $a_9: -2097152$, sum from 1st term to 9th term

20) $a_1: 4$, Common Ratio: 4 , sum from 1st term to 10th term

21) $a_1: 1$, Common Ratio: -1 , sum from 1st term to 10th term

22) Multiplying by 3 , and adding 10 , if 1st term is -20 , find 3th term

23) $[-5, 5, 15, 25, 35, 45, 55, 65, 75, 85, \dots]$ find Common Differnece

24) $[-10, 40, -160, 640, -2560, 10240, -40960, 163840, -655360, 2621440, \dots]$ find 9th term

Sequence Problems

25) $[-1, 3, -9, 27, -81, 243, -729, 2187, -6561, 19683, \dots]$ find which term -59049 is.

26) $a_1: 4$, Common Ratio: 4, sum from 1st term to 9th term

27) Multiplying by 4, and adding 3, if 1st term is -9, find 8th term

28) $[-1, -4, -16, -64, -256, -1024, -4096, -16384, -65536, -262144, \dots]$ find 6th term

29) In Arithmetic sequences, sum of 1st term to 25th term is -2500 and sum of 1st term to 46th term is -7981 find 1st term

30) In Arithmetic sequences, $a_1: 12$, $a_{26}: 262$, sum from 1st term to 26th term

31) $[-1, -4, -16, -64, -256, -1024, -4096, -16384, -65536, -262144, \dots]$ find which term -16384 is.

32) $[4, 11, 18, 25, 32, 39, 46, 53, 60, 67, \dots]$ find 29th term

Sequence Problems

33) $a_1: -1$, Common Difference: -4 , sum from 1st term to 60th term

34) $[-2, 6, -18, 54, -162, 486, -1458, 4374, -13122, 39366, \dots]$ find which term 4374 is.

35) $[-10, 10, -10, 10, -10, 10, -10, 10, -10, 10, \dots]$ find which term 10 is.

36) $a_1: -8$, Common Difference: -3 , sum from 1st term to 21th term

37) $[-9, -17, -25, -33, -41, -49, -57, -65, -73, -81, \dots]$ find Common Difference

38) $[-1, 4, -16, 64, -256, 1024, -4096, 16384, -65536, 262144, \dots]$ find 10th term

39) $[-1, -3, -9, -27, -81, -243, -729, -2187, -6561, -19683, \dots]$ find which term -2187 is.

40) $[1, 4, 16, 64, 256, 1024, 4096, 16384, 65536, 262144, \dots]$ find Common Ratio

Sequence Problems

- 41) Multiplying by 3, and adding 2, if 1st term is 32, find 5th term
- 42) $[-1, -4, -16, -64, -256, -1024, -4096, -16384, -65536, -262144, \dots]$ find which term -65536 is.
- 43) $[-6, -18, -54, -162, -486, -1458, -4374, -13122, -39366, -118098, \dots]$ find which term -39366 is.
- 44) In Arithmetic sequences, sum of 1st term to 97th term is 14065 and sum of 1st term to 16th term is 376 find 1st term
- 45) $[1, 3, 5, 7, 9, 11, 13, 15, 17, 19, \dots]$ find 22th term
- 46) $[-1, 5, -25, 125, -625, 3125, -15625, 78125, -390625, 1953125, \dots]$ find 7th term
- 47) $a_1: -4$, Common Difference: -5 , sum from 1st term to 63th term
- 48) Multiplying by 2, and adding 4, if 1st term is 6, find 6th term

Sequence Problems

49) $[-3, 15, -75, 375, -1875, 9375, -46875, 234375, -1171875, 5859375, \dots]$ find Common Ratio

50) $[7, 14, 28, 56, 112, 224, 448, 896, 1792, 3584, \dots]$ find 8th term

51) Multiplying by 3, and adding -2, if 1st term is 25, find 7th term

52) $a_1: -4$, Common Ratio: 4, sum from 1st term to 6th term

53) Multiplying by 3, and adding -10, if 1st term is 8, find 7th term

54) $[-1, -2, -4, -8, -16, -32, -64, -128, -256, -512, \dots]$ find Common Ratio

55) $[-1, 5, -25, 125, -625, 3125, -15625, 78125, -390625, 1953125, \dots]$ find which term -9765625 is.

56) $[5, 12, 19, 26, 33, 40, 47, 54, 61, 68, \dots]$ find 83th term

Sequence Problems

57) [1, 5, 25, 125, 625, 3125, 15625, 78125, 390625, 1953125, ...] find which term is.
58) a_1 : -3, Common Difference: 7, sum from 1st term to 55th term

59) [-3, -2, -1, 0, 1, 2, 3, 4, 5, 6, ...] find Common Difference

60) [-5, -4, -3, -2, -1, 0, 1, 2, 3, 4, ...] find Common Difference

61) [10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ...] find 59th term

62) [-3, -13, -23, -33, -43, -53, -63, -73, -83, -93, ...] find 40th term

63) [-2, -1, 0, 1, 2, 3, 4, 5, 6, 7, ...] find Common Difference

64) Multiplying by 5, and adding 8, if 1st term is 3, find 7th term

Sequence Problems

65) In Arithmetic sequences, $a_1: 1$, $a_{93}: -827$,
sum from 1st term to 93th term

66) Multiplying by -2 , and adding 6 , if 1st
term is 10 , find 4th term

67) $a_1: -35$, Common Ratio: 5 , sum from 1st
term to 8th term

68) $a_1: 1$, Common Ratio: -1 , sum from 1st
term to 7th term

69) $[8, 16, 32, 64, 128, 256, 512, 1024, 2048,$
 $4096, \dots]$ find which term 2048 is.

70) Multiplying by -5 , and adding 6 , if 1st
term is 21 , find 4th term

71) $[6, -18, 54, -162, 486, -1458, 4374, -13122,$
 $39366, -118098, \dots]$ find which term 39366 is.

72) $[-1, -5, -25, -125, -625, -3125, -15625,$
 $-78125, -390625, -1953125, \dots]$ find 7th term

Sequence Problems

73) In Arithmetic sequences, sum of 1st term to 12th term is -246 and sum of 1st term to 61th term is -5734 find 1st term

74) In Arithmetic sequences, a_1 : -4, a_{52} : -259, sum from 1st term to 52th term

75) $[-1, 1, -1, 1, -1, 1, -1, 1, -1, 1, \dots]$ find 9th term

76) Multiplying by -4, and adding -10, if 1st term is 10, find 3th term

77) In geometry sequences, a_1 : 1, a_6 : -1, sum from 1st term to 6th term

78) a_1 : 6, Common Difference: 1, sum from 1st term to 92th term

79) $[6, 18, 54, 162, 486, 1458, 4374, 13122, 39366, 118098, \dots]$ find 6th term

80) In Arithmetic sequences, sum of 1st term to 79th term is -15879 and sum of 1st term to 19th term is -969 find 1st term

Sequence Problems

81) $[-1, -3, -9, -27, -81, -243, -729, -2187, -6561, -19683, \dots]$ find which term -729 is.

82) $[-1, -5, -25, -125, -625, -3125, -15625, -78125, -390625, -1953125, \dots]$ find which term -15625 is.

83) $a_1: -4$, Common Difference: 5, sum from 1st term to 81th term

84) $[7, -2, -11, -20, -29, -38, -47, -56, -65, -74, \dots]$ find Common Differenece

85) $[10, -40, 160, -640, 2560, -10240, 40960, -163840, 655360, -2621440, \dots]$ find which term 10485760 is.

86) $a_1: 5$, Common Ratio: -5, sum from 1st term to 9th term

87) $[-1, -5, -25, -125, -625, -3125, -15625, -78125, -390625, -1953125, \dots]$ find 6th term

88) Multiplying by -2, and adding 0, if 1st term is 4, find 5th term

Sequence Problems

89) In Arithmetic sequences, $a_1: 11$, $a_{20}: 30$,
sum from 1st term to 20th term

90) $a_1: 4$, Common Ratio: -4 , sum from 1st
term to 9th term

91) In geometry sequences, $a_1: -9$, $a_8: 19683$,
sum from 1st term to 8th term

92) Multiplying by -3 , and adding -4 , if 1st
term is -22 , find 4th term

93) $[-1, -5, -25, -125, -625, -3125, -15625,$
 $-78125, -390625, -1953125, \dots]$ find 9th term

94) In Arithmetic sequences, sum of 1st term
to 59th term is 2065 and sum of 1st term to
12th term is 138 find 1st term

95) Multiplying by -2 , and adding -3 , if 1st
term is -17 , find 4th term

96) $[-1, -2, -4, -8, -16, -32, -64, -128, -256, -512,$
 $\dots]$ find Common Ratio

Sequence Problems

97) Multiplying by 4, and adding 3, if 1st term is -29, find 7th term

98) Multiplying by 2, and adding -6, if 1st term is -4, find 3th term

99) [-1, -4, -16, -64, -256, -1024, -4096, -16384, -65536, -262144, ...] find 6th term

100) In Arithmetic sequences, sum of 1st term to 94th term is -35250 and sum of 1st term to 51th term is -10353 find 1st term