Each problem below is based on an arithmetic sequence. a_n is the nth term in the sequence. d is the common difference. s_n is the sum of the first n terms of the sequence. Please solve each problem below:

1. $S_1 = 9, S_{27} = 324, a_7 =?$

2. $d = -0.1, S_{37} = -370, a_{18} =?$

3. $S_9 = -117, a_4 = -8, d =?$

4. $a_3 = 11, S_{25} = 400, d = ?$

5. $d = -0.5, a_4 = -12, a_1 = ?$

6. $S_{37} = -703, a_9 = -14, a_2 = ?$

7. $S_{23} = 851, S_{27} = 1215, d = ?$

8. $d = 3, a_9 = 32, a_{15} =?$

9. $d = -5, S_{37} = -3589, S_1 =?$

10. $d = -0.5, S_{33} = -297, a_6 =?$

11. $S_1 = -1, S_{11} = 0, d =?$

12. $S_{37} = 351.5, S_{23} = 138, S_{41} =?$

13. $d = 2, a_1 = 7, a_8 =?$

14. $a_6 = 2, a_{16} = 22, S_{19} =?$

15. $d = -5, S_{19} = -703, a_7 =?$

16. $S_1 = -9, a_3 = -9, d = ?$

17. $S_7 = 35, a_7 = 5, d = ?$

18. $S_{31} = -1984, S_3 = -24, S_7 = ?$

19. $S_{41} = 246, S_{25} = 200, d = ?$

20. $d = 0.1, S_{37} = 370, a_2 = ?$

21. $S_{35} = 1050, a_3 = 0, S_{37} = ?$

22. $d = -1, a_7 = -11, a_2 = ?$

23. $d = -3, S_{35} = -1540, S_{17} = ?$

24. $S_1 = 5, a_7 = -19, d = ?$

25. $a_{15} = -24, S_{39} = -1326, d = ?$

26. $d = 5, a_1 = 4, a_7 = ?$

27. $a_9 = -0.5, a_{10} = 0, S_{33} = ?$

28. $d = 0.5, a_4 = 8, a_{13} =?$

29. $S_7 = -63, S_1 = 0, S_{29} =?$

30. $d = 4, a_8 = 29, S_{19} =?$

31. $a_1 = -7, a_{14} = -59, d =?$

32. $d = 0.5, S_1 = 2, S_9 = ?$

33. $d = -0.1, S_{17} = -17, S_1 = ?$

34. $S_{39} = 1092, a_{21} = 30, d = ?$

35. $d = 3, a_5 = 18, S_{15} = ?$

36. $S_{31} = 1674, a_1 = 9, S_{11} =?$

37. $a_{15} = -38, S_9 = -72, d =?$

38. $d = -1, a_{13} = -11, S_{39} =?$

39. $S_3 = -15, a_{10} = 11, S_{33} =?$

40. $d = -2, a_3 = 0, S_{39} =?$

41. $S_{33} = -1947, a_5 = -11, d =?$

42. $d = 1, a_{13} = 18, S_7 =?$

43. $a_{10} = -4, S_5 = -30, a_4 =?$

44. $a_{17} = 48, S_5 = 30, d = ?$

45. $S_{19} = -437, S_{11} = -121, S_{25} = ?$

46. $d = 4, a_{18} = 73, a_{20} = ?$

47. $S_{15} = -570, a_{12} = -54, d = ?$

48. $S_{41} = 2009, S_{29} = 1073, d = ?$

49. $a_{17} = -2, a_{15} = -3, a_7 = ?$

50. $d = 4, a_4 = 2, S_{21} = ?$

51. $d = -1, a_{19} = -15, S_{15} = ?$

52. $d = -4, a_{14} = -56, a_{13} =?$

53. $d = 4, S_{29} = 1595, a_{18} =?$

54. $d = -0.5, S_{39} = -390, S_{35} =?$

55. $d = -0.1, S_9 = 18, S_{15} =?$

56. $a_{13} = -1.1, S_{27} = -27, a_3 =?$

57. $S_{29} = -58, a_5 = -3, S_{19} =?$

58. $S_{17} = 153, S_{31} = 372, d =?$

59. $d = 4, a_6 = 29, a_{11} =?$

60. $d = 0.2, a_1 = 9, a_{10} =?$

61. $d = -0.1, a_{16} = -6, S_{13} =?$

62. $a_{17} = 4, S_{11} = -22, d =?$

63. $d = 0.1, a_{11} = 2, a_3 =?$

64. $S_{21} = 42, S_{41} = -123, S_{13} =?$

65. $a_{18} = 34, S_{37} = 1332, S_{33} =?$

66. $d = 0.2, S_{25} = 50, a_{19} =?$

67. $a_{14} = 73, S_1 = 8, d =?$

68. $S_{27} = 54, a_1 = 1, d = ?$

69. $a_6 = 2, a_{11} = 3, d = ?$

70. $d = 5, a_7 = 36, S_{39} = ?$

71. $d = -1, S_{27} = -459, a_5 = ?$

72. $S_{27} = -1134, a_6 = -10, S_{39} =?$

73. $d = -5, a_{16} = -68, a_7 =?$

74. $d = 5, a_{19} = 89, a_{14} =?$

75. $S_{25} = -95, S_{21} = -84, a_3 =?$

76. $a_1 = 9, S_{39} = 1833, d = ?$

77. $a_8 = 24, a_9 = 28, S_{39} = ?$

78. $d = -0.5, a_{16} = -10, S_{17} = ?$

79. $d = -1, S_{39} = -702, a_{12} = ?$

80. $d = -5, S_3 = -39, S_{19} =?$

81. $d = -3, S_{39} = -2340, S_{35} =?$

82. $S_{37} = -74, S_{29} = -29, a_2 =?$

83. $d = -1, S_{11} = 33, a_2 =?$

84. $d = 5, S_3 = 0, a_8 = ?$

85. $d = -0.1, S_{27} = 81, S_{41} = ?$

86. $d = 3, S_{13} = 195, S_1 = ?$

87. $S_{19} = -19, S_1 = 0, d = ?$

88. $S_{31} = 1860, a_4 = 12, a_{15} =?$

89. $d = -0.1, S_5 = 10, S_{25} =?$

90. $d = -2, a_8 = -7, a_{12} =?$

91. $a_{15} = -1, S_{17} = -17, d =?$

92. $a_3 = 2, a_8 = 3, S_{17} =?$

93. $a_8 = 15, S_{35} = 1575, d =?$

94. $d = 0.5, S_{29} = 377, S_{33} =?$

95. $a_6 = 11, a_{16} = 13, S_{39} =?$

96. $d = -0.1, S_{27} = -216, a_2 = ?$

97. $a_{10} = -51, S_{17} = -782, d = ?$

98. $d = 2, a_{17} = 33, a_{10} = ?$

99. $a_5 = -14, S_{17} = -374, a_{17} = ?$

100. $d = 1, S_{15} = 60, S_{37} =?$