

PROBLEM SET 11-4
(Arithmetic Series)

Use the following information about an arithmetic series to complete.

1. $a_1 = 4, a_2 = 7, S_{10} = \underline{\hspace{2cm}}$
2. $a_1 = 9, a_2 = 20, S_{13} = \underline{\hspace{2cm}}$
3. $a_1 = 15, d = 10, S_{20} = \underline{\hspace{2cm}}$
4. $a_1 = 17, d = 8, S_{30} = \underline{\hspace{2cm}}$
5. $a_1 = 14, d = -2, S_{15} = \underline{\hspace{2cm}}$
6. $a_1 = 29, d = -3, S_{18} = \underline{\hspace{2cm}}$
7. $a_1 = 8, a_6 = 38, S_{40} = \underline{\hspace{2cm}}$
8. $a_1 = 7, a_9 = 47, S_{50} = \underline{\hspace{2cm}}$
9. $\sum_{n=1}^{60} 3 + 2(n-1) = \underline{\hspace{2cm}}$
10. $\sum_{n=1}^{70} 4 + 3(n-1) = \underline{\hspace{2cm}}$
11. $S_n = 2247, a_1 = 17, a_n = 197, n = \underline{\hspace{2cm}}$
12. $S_n = 1102, a_n = 103, n = 19, a_1 = \underline{\hspace{2cm}}$