

PROBLEM SET 11-2
(Arithmetic Sequences)

Use the following information about arithmetic sequences to complete.

1. $a_1 = 2, a_2 = 5, a_{45} = \underline{\hspace{2cm}}$
2. $a_1 = 18, a_2 = 14, a_{51} = \underline{\hspace{2cm}}$
3. $a_1 = \frac{1}{3}, a_2 = 1, a_{17} = \underline{\hspace{2cm}}$
4. $a_1 = 8, a_2 = 11, a_{64} = \underline{\hspace{2cm}}$
5. $a_1 = 5, d = 3, a_n = 101, n = \underline{\hspace{2cm}}$
6. $a_1 = 88, d = -5, a_n = 13, n = \underline{\hspace{2cm}}$
7. $a_1 = 7, d = 4, a_n = 11, n = \underline{\hspace{2cm}}$
8. $a_1 = 57, d = -3, a_n = 0, n = \underline{\hspace{2cm}}$

Find the missing arithmetic means.

9. 42, , , , 70
10. -107, , , , , , , -86
11. 23, , , , , , -31
12. -143, , , -215
13. 53, , , , 75
14. 123, , , , , 55
15. 47, , , , , , -11