



4-47. See below.

a. either 3 or $\frac{1}{3}$

b. either 9 or $\frac{1}{9}$

4-48. See below.

a. $3x + 3^\circ + x + 7^\circ = 90^\circ, x = 20^\circ$

b. $9x + 4^\circ = 3x + 14^\circ, x = \frac{10}{6} \approx 1.67^\circ$

4-49. (a) and (d) are most likely independent.

4-50. See below.

b. ≈ 29.44 feet

4-51. See below.

a. G; $a_n = \frac{1}{2} \cdot \frac{1}{2}^{n-1} = \frac{1}{2}^n$

b. A; $a_n = -7.5 - 2(n - 1) = 5.5 - 2n$

4-52. See below.

a. $10^2 + (x + 3)^2 = 26^2; x = 21$