Section 1.2 (Solving Multi-Step Equations) Part II: Combining Like Terms and Using the Distributive Property

- 1) 4x 3 + 2x = -9 x = -12) 4 - 3x + 2 = -9 x = 53) 4x + 3 - 2x + 1 = -9x = -6.5
- 4) 1.1x 5.4 + 1.2x = -10 x = -25) $\frac{2}{3}n + 11 - \frac{1}{3}n = 8$ n = -96) $1.5n + 12 - \frac{1}{2}n - 5 = 7.8$ n = 0.8
- 7) A 22-foot house has a 4-foot attic. If the house has two stories that have the same height, how tall is each story of the house?
 - a) Equation: 2x + 4 = 22 b) Solution: Each story is 9 feet tall.
- 8) The narrowest angle of a triangle is 30°. The larger of the other two angles is twice the size of the other one. What are the measurements of all three angles?
 - a) Equation: a + 2a + 30 = 180 b) Solution: 30° , 50° , 100°
- 9) 4(3-2n) = 20 n = -110) $\frac{1}{2}(n+8) = 4$ n = 011) -2(n-3) = 16n = -5
- 12) 2-4(3-2n) = 14 x = 313) 2+4(3-2n) = 14 x = 014) 2(2-x) + 12x = 44x = 4