**HW #8: *The Quadratic Formula and the Discriminant***

**Complete parts a**-**b for each quadratic equation.**

**a. Find the value of the discriminant.**

**b. Describe the number and type of roots.**

**1.**  – 8*x* + 16 = 0 **2.** 3 – 2*x* = 0

**3.** + 49 = 0 **4**. 5 – *x* – 1 = 0

**Solve each equation by using the Quadratic Formula.**

**13.**  – 64 = 0 **14.**  – 30 = 0

**15.**  – *x* = 30 **20.** 3 + 36 = 0

**17.**  – 4*x* – 11 = 0 **18.**  – 8*x* – 17 = 0