MTH – 4108-1 Quadratic Functions

Name:

Date:

1. Determine whether the following statements are true or false. (8 marks)

a) If a quadratic equation has one zero, then the discriminant (Δ) of this equation is less than zero. _____

b) The discriminant (Δ) of a quadratic equation is greater than zero. The zeros of this equation could be 6 and -3. _____

c) The zeros of a quadratic equation whose discriminant (Δ) is -5 could be 4 and -2 _____

d) If a quadratic equation has no zero, its discriminant (Δ) is equal to zero. _____

e) The zero of a quadratic equation is 1. Its discriminant (Δ) could be less than 0. _____

f) The discriminant (Δ) of a quadratic equation is -4. This equation has no zeros. _____

g) The zeros of a quadratic equation are 6 and 2. The discriminant (Δ) of this equation is zero. _____

h) If the discriminant (Δ) of a quadratic equation is greater than 0, then the equation has two distinct zeros. _____