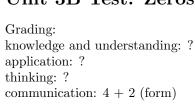
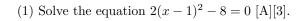
## Unit 3B Test: Zeros of a Quadratic (2022)





- (2) Determine the equations of the parabola in vertex form for the following
  - a.) If the vertex of a parabola is (3, -5) and the y-intercept is at y = 8 [T][3].

b.) If the parabola  $y = x^2$  is stretched by a factor of 5, moved 6 units to the right, and moved 7 units down [T][2].

(3) Rewrite the equation  $y = 2x^2 + 8x + 3$  in vertex form and also sketch it [A][3].

(4) Sketch the parabola $y = 2(x+3)^2 - 2$ .	The sketch must include the x-intercept(s),	y-intercept, and vertex of the parabola
[A][3].		

- (5) For the parabola  $y = 3(x-5)^2 6$ 
  - a.) Identify the equation for the axis of symmetry, the max/min, and the vertex [K/U][3].

b.) Describe the transformation of the parabola [C][4].

c.) Determine the x-intercept of the parabola [K/U][2].