**1. g(x) = x2** is vertically stretched by a factor of 3, translated 3 units to the right and five units up

What is the new equation?

**A.** g(x)= 3(x-5)2+3 **B.**g(x)= -3(x+5)2+3 **C.**g(x)= 3(x-3)2-5 **D.**g(x)= 3(x-3)2+5 **E.** g(x)= -3(x+3)2-5

**2. Write the quadratic function c(x) =x2-8x-17 in Vertex Form**

**F.** c(x)= (x-4)2-1 **G.** c(x)= (x-4)2-33 **H.** c(x)= (x-6)2-5 **J.**c(x)= (x-6)2-19 **K.** c(x)= (x-4)2-5

**3. What is the minimum or maximum of g(x)=-9x2+6x-1**

**A.** Min (⅓, 0)  **B.** Max (⅓, 0) **C.** Min (3,0) **D.** Max (3,0) **E.** Max (6,0)

**4. What are the zeros of the function y=5x2-6x+1**

**A.** 1,5 **B.** ⅕, 1 **C.** -1, -5 **D.**-1, -⅕ **E.** No Zeros

**5.What is the Vertex and Y intercept of h(x) = 2x2 - 8x - 10**

**F.** vertex: (-5/2, 0), y-intercept: -18 **G.**vertex: (2 ,-18 ), y-intercept: -10

**H.**vertex: (2, -18), y-intercept: -5 **J.**vertex: (2, 0), y-intercept: -10  **K.** vertex: (2, -18), y-int: -20

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_ \_\_\_\_\_/5

**ACT 11**  - Week 3- Quadratics Day 3

**1. g(x) = x2** is vertically stretched by a factor of 3, translated 3 units to the right and five units up

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