

# CHAPTER TEST – QUADRATIC FUNCTIONS

August 20, 2018

A. *Directions:* determine the sum and product of the roots of the following quadratic equations.

1)  $4x^2 - 7x - 8 = 0$

3)  $tx^2 + vx + 8 = 0$

2)  $4x^2 - 36 = 0$

B. *Directions:* Derive the quadratic equation given the following roots.

4)  $\frac{7}{8}$  and  $4$

5)

5)  $2 \pm \sqrt{3}$

C. *Directions:* Transform the following quadratic functions in vertex form. Then determine the values of a, h and k.

6)  $f(x) = x^2 + 5x + 2$

7)  $f(x) = -9x^2 - 3x + 9$

*Directions:* Solve the following problems. Show all solutions.

8) Find two numbers whose sum is 23 and whose

# Chapter Test Quadratic Functions

**Lei Huang**



## **Chapter Test Quadratic Functions:**

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