

Name: _____ Date: _____

Quadratic Equations

Solve the following word problems using quadratic method :

a. The difference of squares of two numbers is 160. The square of the smaller number is 6 times the larger number. Find the two numbers.

b. Find the value of k for which the given quadratic equation has real and distinct root. $Kx^2 + 2x + 1 = 0$

c. Sum of the areas of two squares is 468 m². If the difference of their perimeters is 24 m, find the sides of the two squares.