

Solve all five equations using various methods. Choose one to solve using factoring, one to solve by inserting a radical, one by completing the square, and one using the quadratic formula. The last one is your choice. CHOOSE WISELY! USE PENCIL ONLY!!! YOU MUST WRITE THE PROBLEM NUMBER, COPY THE EQUATION CAREFULLY, THEN SHOW ALL OF YOUR WORK in the space provided. Take the time to check your work. Circle your final answers. Write neatly.

1. $a^2 + 14a - 51 = 0$

2. $m^2 + 7 = 88$

3. $a^2 + 3a = -2$

4. $7k^2 + 16k = 2k$

5. $5k^2 = 60 - 20k$

Problem # _____

Method: Insert a Radical

(Hint: Equation #2 is best here)

Problem# _____

Method: Factoring

Problem # _____

Method: Completing the Square

Problem # _____

Method: Quadratic Formula

Problem # _____

Method: YOUR CHOICE