**Math 3 Review for Quiz Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**YOU MUST SHOW YOUR WORK TO RECEIVE CREDIT!!**

Using Completing the Square, write in **VERTEX FORM** and **SOLVE**:



1. 2.

3. 4.

5.

Solve using the **Quadratic Formula**:



6. 7.

8. 9.

Find the **VERTEX**, **AXIS OF SYMMETRY**, and **ZEROS :**



10. 11.

12.

**Solve by taking the square root:**

13. 14.

**Operations with Complex Numbers**

15. (6 – 4i) + (-4 + 7i) 16. (2 + 5i) – (6 – 3i)

17. (1 – 3i)(2 + 4i) 18. (-2 – 2i)(6 – 5i)

**Quadratics with Complex Numbers**

 **Quadratic Formula**

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 19.

 **Taking the square root**

 20. $(x + 4)^{2} + 25= 0$

 **Completing the square**



 21.

 22. $ 2x^{2} – 12x$ + 22 = 0