

NAME: \_\_\_\_\_ Score \_\_\_\_\_/10  
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**SHOW ALL YOUR WORK IN A NEAT AND ORGANIZED FASHION**

1. T F If both sides of an equation are squared, the resulting equation is equivalent to the original equation.
2. T F If a non-zero real number is added to both sides of an equation, the resulting equation is equivalent to the original equation.
3. Solve the equation  $A = \frac{1}{2}(b_1 + b_2)h$  for h.
4. The conjugate of  $3 - 8i$  is \_\_\_\_\_
5. Compute the product  $(3 + 2i)(2 + 5i) =$
6. Describe the graph of the equation  $x^2 + y^2 = 49$
7. Write the formula for the volume of a cone with radius 3 and height h.
8. Write the interval  $(2, 5]$  in set builder notation.
9. State the Zero Factor Property
10. Write the formula for the area of a circle.