

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  $(2 + 3i)(4 + 5i) =$
  
6. Describe the graph of the equation  $(x + 5)^2 + y^2 = 36$
  
7. Write the formula for the volume of a cylinder 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 circumference of a circle.