## Algebra I 11-5 Square Roots of Variable Expressions

$$\sqrt{7^2} = 7$$
  
 $\sqrt{2^2} = 2$   
 $\sqrt{(642)^2} = 642$   
 $\sqrt{(-4)^2} = 4$ , answer to a square root  
cannot be negative

True / False 1) x is always positive. False; x = -7 2) -x is always negative. False, 3)  $x^2$  is always positive. False; o<sup>2</sup>=0 4)  $x^2$  is never negative. True. 5) The answer to a square root may not be negative Thus,  $\sqrt{x^2} = \mathbf{k}$ 







