Name: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

## **Solving Exponential Functions**





16. Solve each exponential equation. Identify the property of equality that allows you to carry out each step.

Faugtion	Stens
$2^{\times}$ 0 70	
5 -7 = 72	Given

17. There are 8 acteria in a culture. The number of bacteria in the culture quadruples every hour. After how many hours will there be 2,048 bacteria?  $\gamma = \alpha b^{\times}$  $\gamma = \alpha b^{\times}$  $2048 = 8(4)^{\times}$  $25b = (4)^{\times}$  $4^{+} = (4)^{+}$  $4^{-} \times$  $4^{-} \times$