Algebra I Class Work 8.5

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Directions: You may use your book, notes, calculator, friends, and teacher. However you may not copy someone else work verbatim. **Show all your work.** If you are not finished at the end of class, write “NEED MORE TIME” at the top and turn your paper in – **you may not take it home.** You have one week to finish it.

Evaluate.

1. $y=\left(\frac{3}{4}\right)^{x}$ when *x* = 2.
2. $y=-2∙5^{x} $when *x* = 3.

Complete each table and then state whether the function is increasing or decreasing.

*x* -2 -1 0 1 2

*y*

1. $y=4^{x}$

*x* -2 -1 0 1 2

*y*

1. $y=\left(\frac{1}{5}\right)^{x}$

*x* -2 -1 0 1 2

*y*

1. $y=-2∙3^{x}$