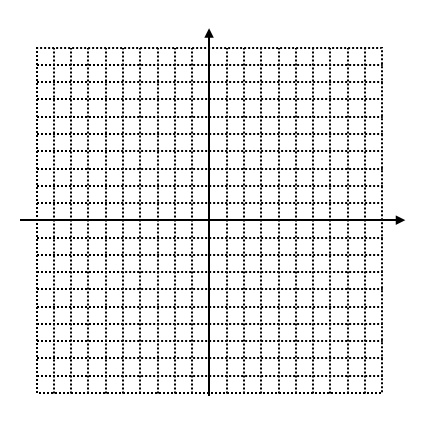
**Name: Period: Job 22 Transformations of Exponential Functions**

**Part 1: Textbook**

Textbook Lesson 6-5 Page 250: 19, 21, 23, 24, 25

**Part 2: Algebra Regents Questions –**

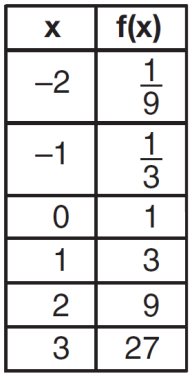


**Graph Question 25 here**

1. Jacob and Jessica are studying the spread of dandelions. Jacob discovers that the growth over weeks can be defined by the function Jessica finds that the growth function over weeks is . Calculate the number of dandelions that Jacob and Jessica will each have after 5 weeks.

Based on the growth from both functions, explain the relationship between and .

1. Which function is shown in the table below?





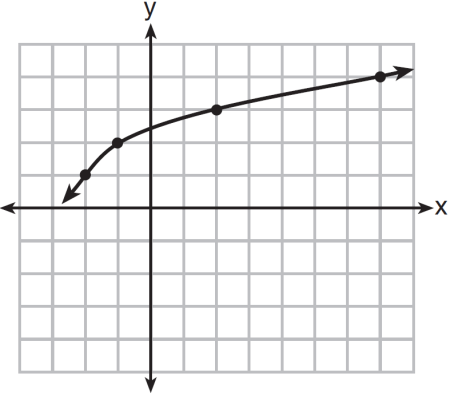
(1)

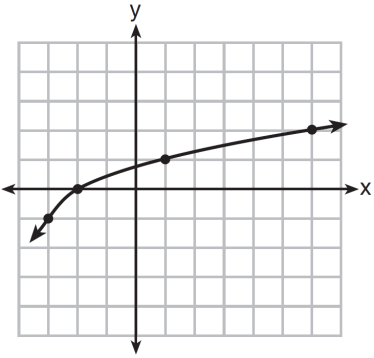
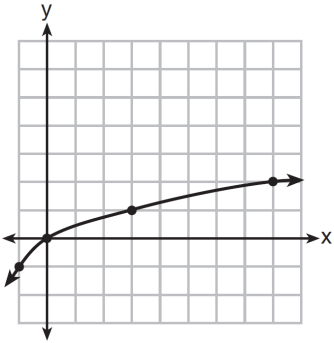
(2)

(3)

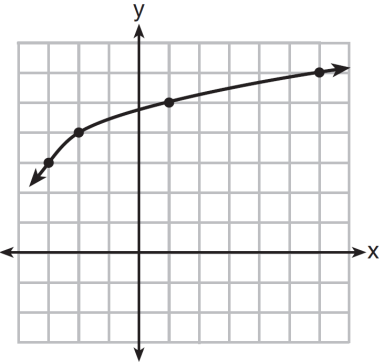
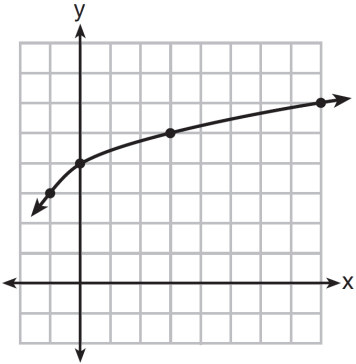
(4)

1. The graph of is shown below.

****

What is the graph of ?

(1) (3)



(2) (4)

****4. Draw the graph of on the set of axes below.