## **Transformations of Functions Review**

Describe the transformation of each function as it relates to the graph of the parent f(x) = x

1. g(x) = -2(x-8) + 6

· Reflect our x · Right 8

· Vertreal · Up le Stretch

2. g(x) = (1/2x + 4) - 2 • Horizental Stretch

· Left 4

3. g(x) = (-7x) + 3

· Horozontal

Reflect over y-axis4. g(x) = 0.65(x+3)

· Left 3 ×

· Vertical compress

Describe the transformation of each function as it relates to the graph of the parent f(x) = |x|

5. g(x) = |x-2| + 3

, up 3

· Right 2

6. g(x) = 3/4 | x + 4 | -1
Vertical
Compress Davn

7. g(x) = |-5x| + 2

· Hosizontal compress No reflect

6 Up 2

8. g(x) = -2.5|x+5|+7

· Vertical · Left 5 Stretch · Reflect our · up 7 ×-axis

The cost to rent a paddle boat at the county park is \$8 per hour plus a nonrefundable deposit of \$10. The cost can be modeled by the function f(h) = 8h + 10, where h represents the number of hours the boat is rented. A few weeks later, the deposit cost changed and is modeled by g(h) = 8h + 25. Describe the transformation of the graph of g(h) as it relates to f(h) and state the deposit cost change.

up 15

10. Certain types of glass heat and cool at a nearly constant rate when they are melted to create new glass products. Use the graph to determine the equation to represent the process.  $Q: Sleet: \frac{1071}{9} = -119$ 

h: Right 9

K: Up 1100

y=-119/x-9/+1100

1100 - 29 = 1071

