Algebra II Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Systems of Equations Applications Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hour\_\_\_\_\_\_\_\_\_\_\_\_\_

Review of Piecewise Functions

1. At the fast food restaurant, four cheeseburgers and five small fries have a total of 2,310 calories. Three cheeseburgers and two small fries have a total of 1,330 calories. How many calories does each item contain?

Define your variables:

x =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Cheeseburger Calories:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Small Fry Calories\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. You purchase 8 gallons of paint and 3 brushes for $152.50. The next day you purchase 6 gallons of paint and 2 brushes for $113.00. How much does each gallon of paint and each brush cost?

 Define your variables:

x =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Cost of gallon of paint:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Cost of paint brush:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. At Billy’s preschool, they have bicycles and tricycles, with a total of 57 wheels. The number of bicycles is three less than 3 times the number of tricycles. How many of each are there?

Define your variables:

B =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ T = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# of bicycles: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ # of tricycles:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Piecewise function Review:



