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

**Graphing Piecewise Functions**

1. Evaluate  when:
   1. 
   2. 
   3. 
2. Graph: 

Domain:

Range:

Point of Discontinuity:



1. Graph: 

Range:

Point of Discontinuity:

Increasing:



1. Graph: 

Domain:

Range:

Point of Discontinuity:



1. Graph: 

Domain:

Range:

Point of Discontinuity:



1. Graph: 

Domain:

Range:

Point of Discontinuity:



**Step Functions**

1. You are making class t-shirts. A company charges $5 per shirt if you order less than 100 shirts, $4 per shirt between 100-300 shirts, and $3 per shirt for orders over 300. Write a piecewise equation to represent the situation.
2. You are making class tattoos for the pep rally. There is a $10 set up fee for the design. Tattoos cost $1 per tattoo if you order 200 or less tattoos, $0.50 per tattoo for orders over 200. Write a piecewise function to show the price based on the tattoo.
3. You start tutoring elementary students in math, and you schedule a month at a time. You charge $20 an hour for less than 3 hours, and $15 an hour for 3 or more hours.

Write a piecewise function to show the rates based on the hours, and determine how much you would make if you tutored for 4 hours.

1. Graph: 

Domain:

Range:

Constant:



1. Given the graph, determine the piecewise function (include the domain restriction):



