Review Problems

Do your work on a seperate sheet of paper

If you need more problems contact me and I will find you some

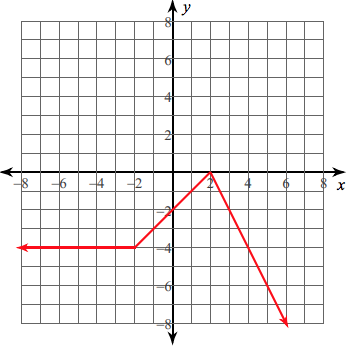
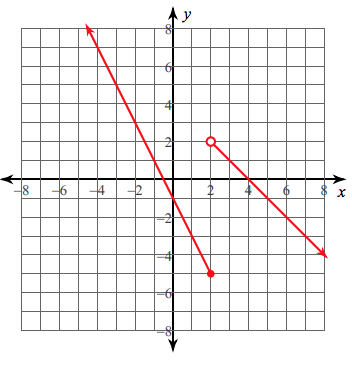
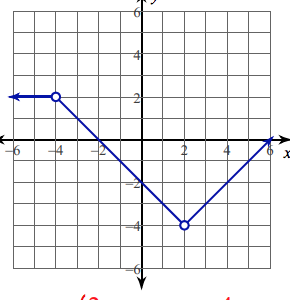
Also work through the ready, set, goes in the workbook

**Piecewise Functions**

http://www.shelovesmath.com/algebra/advanced-algebra/piecewise-functions/

This website is a great tool for piecewise functions.

Write a piecewise function for each graph. And state the domain and range of the following graph.



**Solve and Graph Absolute Value Equations and Inequalities**

https://www.khanacademy.org/math/algebra-home/alg-absolute-value

This is a great tool also for absolute value equations, functions and inequalities

**Evaluate the functions**

Given , , and compute:

Given , , and . Compute the following:

**Inverses**

Given

1. Graph
2. State the range and domain of
3. Find
4. Graph
5. State the range and domain of

Given

1. Graph
2. State the range and domain of
3. Find
4. Graph
5. State the range and domain of
6. Evaluate
7. Evaluate

Find the inverse of the given functions and state the domain and range of the function and inverse.

Given Given

Given Given

Given

**Direct and Inverse Variation**

The pressure P of a compressed gas is inversely proportional to the volume V. If there is a pressure of 25 pounds per square inch when the volume of gas is 400 cubic inches, find the pressure when the gas is compressed to 200 cubic inches.

Hooke’s law states that the distance d that a spring is stretched by a hanging object varies directly as the mass m of the object. If the distance is 20 cm when the mass is 3 kg, what is the distance when the mass is 8 kg?

The time T required to do a job varies inversely as the number of people P working. It takes 5 hours for 7 volunteers to pick up rubbish from 1 mile of roadway. How long would it take 12 volunteers to complete the job?