

1. When is an absolute value problem an "AND" problem? What does "AND" tell you to do when graphing?

AND $\rightarrow <, \leq \rightarrow$ Less Than and

An "AND" problem is an intersection. Graph what is in common, the overlap of the inequalities

2. When is an absolute value problem an "OR" problem? What does "OR" tell you to do when graphing?

OR $\rightarrow >, \geq, = \rightarrow$ Greater or

An "OR" problem is a union. Graph the entirety of both inequalities together

3. When do you use brackets in interval notation?

Brackets $[,]$ for \geq or \leq

4. When do you use parentheses in interval notation?

Parentheses $(,)$ for $>$ or $<$ and ∞ or $-\infty$

5. What is the first step to solving this inequality?

$$\sqrt{(3x-8)^2} \leq 5 = |3x-8| \leq 5$$

6. What must you remember to do when there is a variable on BOTH SIDES of an absolute value equation?

You must check your answer by plugging it into the original problem.

7. Get a laptop and check your answers on www.northernpbmath.weebly.com. (Look under the Chapter 1 page for Transitions. Download the "Laptop Study Guide KEY")
8. Choose one additional review assignment from the Chapter 1 page. Show your work/write your answers on the back of this worksheet.
9. Turn this paper in when you are finished.