Math 1215 -   Homework 1   Name:

1. Evaluate $5 - 3\left(-7 - (-4 + 1)\right)^2$

2. $\dfrac{y^2 \pm \sqrt{x+7}}{2y}$ *when* x = 9 and y = 3

3. List the elements of the set {x | x is a natural number between 7 and 14}.
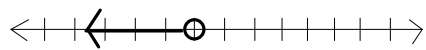
4. Evaluate: - |-7|

5. Graph the real numbers less than 4

-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6

6. Write the Inequality for a given solution

-6 -5 -4 -3 -2 -1 0 1   2 3 4 5 6

7. Simplify each. Leave your answer as an improper fraction.

a)

$\frac{42}{12}$

b)

$\frac{25}{20}$

8. Evaluate : $a)\ \frac{2}{7}+\frac{5}{3}$ $\qquad b)\ \frac{-5}{8}-\frac{9}{2}$ $\qquad c)\ \frac{2}{5}\cdot\frac{11}{-4}$ $\qquad d)\ \frac{2}{11}\div\frac{5}{4}$