**MATH E-3: Assignment 2**

What set(s) of numbers do the following belong to (real, rational, irrational, integers, whole, natural). Be sure to list all for full credit.

1.

Real, Rational



 Real, Rational, Integer, Whole

π

 Real, Irrational





Real, Irrational

5. Is 1/7 a natural number? Why or why not?

No, because all natural numbers are whole numbers, and non-negative.

6. Is 2/3 a rational number? Why or why not?

Yes, 2/3 is a rational number because it can be represented by a fraction where both the numerator and denominator are integers (i.e. 2 and 3).

Simplify if possible. If not, tell why you cannot:

5

8.

-3

9.

The square root of -36 is an imaginary number.

10.

3

Solve the following. Remember you can rewrite those problems that are subtractions as additions of the opposite.

11.  ()

-21

12.  

-18

1. -6 +9

3

Solve the following.



Work:



Answer: -6

1. 5 − 6 (2  + 28 7 \* 2



Work:



Answer: -83

16. () 4 () ()

Work:



Answer: -384

Solve the following.

17. (-4) x (-15) x 4

(-6) x 10

Work:



Answer: -4

18. (7 – 13) + 24 ÷4 \*2

Work:



Answer: 102

19. 1

20.

-23 23