

## MATH E-3: Assignment 2

Total possible points = 33

NAME:

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)  $-1/5$  **2 points**

2)  $\sqrt{3}$  **3 points**

3)  $\pi$  **2 points**

4)  $-17$  **2 points**

5) Is  $-2/3$  a natural number? Why or why not? **2 points**

6) Is  $5/6$  a rational number? Why or why not? **2 points**

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

7)  $\sqrt{36}$  **1 point**

8)  $\sqrt[3]{-64}$

**1 point**

9)  $\sqrt[2]{-25}$

**1 point**

10)  $\sqrt[4]{625}$

**1 point**

**Calculate the following:**

11)  $-17 - (-9)$

**1 point**

12)  $-5 - 23$

**1 point**

13)  $\frac{(-6)(-4)(3)}{-8+-4}$

**2 points**

14)  $6 - 2(5-3)^2 + 21 \div 7 \times 4$

**2 points**

15)  $(2015)^0 =$

**1 point**

16)  $-48 + 63$

**1 point**

17)  $(-8) \times 4(-5) \times (-3)$

**2 points**

18)  $\frac{(-4) \times (-5) \times 6}{(-12) \times 4 \div 8}$

**2 points**

19)  $(5 - 18) + 4(5 - 7)^2 + 24 \div 3 \times 2$

**3 points**

20)  $|-25|$

**1 point**