

Name _____ Intermediate Algebra Quiz 1 Spring 2009 Mike Huff

1. Perform the indicated operation.

Subtract: $\frac{3}{20} - \frac{11}{15}$

2. Evaluate the following expressions.

a) $-|-7|$

b) $-10 - (-7)$

c) $-(-2)^2$

d) $(-2)^2$

e) $[(3 - 2)^2 - (4 - 2)^2] \cdot 2^2 - 2 \cdot 2$

3. Evaluate the expression for the given value of the variable.

$$x^2 - x - 1 \text{ for } x = -2$$

4. Evaluate each expression, if possible. If not possible, then explain why not.

a) $\frac{0}{3}$

b) $\frac{3}{0}$

5. Complete the statement using the given property:

a) **Commutative Property of Addition** $x + 3 =$

b) **Commutative Property of Multiplication** $5(x + 2) =$

c) **Associative Property of Addition** $(4 + 2) + 9 =$

d) **Distributive Property:** $8(x + 3) =$

6. Simplify: $-(x - 2) - 2(-5x + 7)$

7. Solve the following equation: $2(x - 1) - 3(x + 1) = -(x + 1)$