

Name: _____

Pre-Calc 10 Mini – Review

Show all of your work.

1. Fractions

Simplify the following.

a) $\frac{1}{5} + \frac{2}{7}$

b) $\frac{3}{5} - \frac{7}{9}$

c) $\frac{2}{6} \times \frac{7}{9}$

d) $\frac{2}{3} \div \frac{4}{5}$

2. Evaluating Algebraic Expressions

Evaluate the following algebraic expressions for $x = 2$, $y = 3$, and $z = -3$.

a) $2x + y - 5$

b) $x - 3y$

c) $-2x - y + 4z$

3. Algebra

Solve the following equations for the given variable.

a) $2x - 3 = 5$

b) $3x - 4 = x - 12$

$$c) 2(2x + 1) = 5$$

$$d) 11 = 3(x + 2) - 4$$

4. Order of Operations

Evaluate the following expressions.

$$a) (-8)((-8) - 2 - (-4))$$

$$b) \frac{3(7-23)}{4}$$

$$c) \frac{2-22}{(-5)(-2)}$$

$$d) -1 - 2(-7 + 4^2)$$