

Unit 5 Quiz A Review

Name _____

Per: _____



Simplify. State any restrictions on the values of the variables.

1. $\frac{24x - 32y}{8}$

$$\frac{8(3x - 4y)}{8}$$

$$3x - 4y$$

No restrictions

2. $\frac{4m - 4n}{4m + 4n}$

$$\frac{4(m - n)}{4(m + n)}$$

$$\frac{m - n}{m + n}$$

← restrictions

$$m + n \neq 0$$

$$\boxed{m \neq -n}$$

3. $\frac{8n^2 - 72}{4n - 12}$

$$\frac{8(n^2 - 9)}{4(n - 3)}$$

$$\frac{4(n - 3)(n + 3)}{4(n - 3)}$$

← restrictions

$$n - 3 \neq 0$$

$$\boxed{n \neq 3}$$

4. $\frac{3a^2 - 48}{a^2 + 8a + 16}$

$$\frac{3(a^2 - 16)}{(a + 4)(a + 4)}$$

$$\frac{3(a - 4)(a + 4)}{(a + 4)(a + 4)}$$

← restrictions

$$a + 4 \neq 0$$

$$\boxed{a \neq -4}$$

$$\Rightarrow \frac{3(a - 4)}{a + 4}$$

5. $\frac{3a^2 - 4ab - 7b^2}{a^2 - b^2}$

$$\frac{(3a - 7b)(a + b)}{(a + b)(a - b)}$$

$$\frac{3a - 7b}{a - b}$$

← restrictions

$$a + b \neq 0$$

$$\boxed{a \neq -b}$$

$$a - b \neq 0$$

$$\boxed{a \neq b}$$

6. $\frac{(c - 7)^2}{49 - c^2}$

$$\frac{-1(\cancel{c - 7})(c - 7)}{1(\cancel{c - 7})(c + 7)}$$

$$\frac{-(c - 7)}{c + 7}$$

← restrictions

$$7 - c \neq 0$$

$$\boxed{7 \neq c}$$

$$c + 7 \neq 0$$

$$\boxed{c \neq -7}$$

$$\frac{7 - c}{c + 7}$$

7. Solve for x. State the restrictions on the variable, if any.

a. $2x + 5k = 6k^2 - 3kx - 6$

$$2x + 3kx = 6k^2 - 5k - 6$$

$$x(2 + 3k) = (3k + 2)(2k - 3)$$

$$\frac{x(2 + 3k)}{2 + 3k}$$

$$\frac{(3k + 2)(2k - 3)}{2 + 3k}$$

← restriction

$$2 + 3k \neq 0$$

$$\frac{-2}{3} \neq -\frac{2}{3}$$

$$k \neq -\frac{2}{3}$$

$$x = 2k - 3$$

b. $2n(x - n) = x - 5n + 2$

$$2nx - 2n^2 = x - 5n + 2$$

$$2nx - x = 2n^2 - 5n + 2$$

$$x(2n - 1) = (2n - 1)(n - 2)$$

$$\frac{x(2n - 1)}{2n - 1}$$

← restriction

$$2n - 1 \neq 0$$

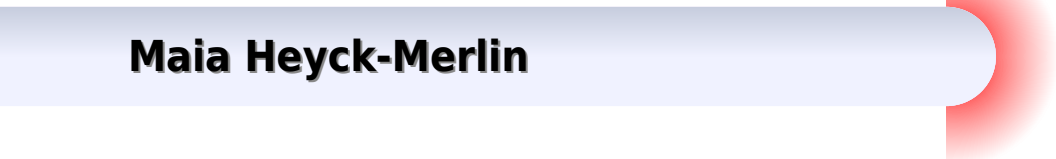
$$2n \neq 1$$

$$\boxed{n \neq \frac{1}{2}}$$

$$x = n - 2$$

Algebra 2 Review Unit 5

Maia Heyck-Merlin



Algebra 2 Review Unit 5:

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