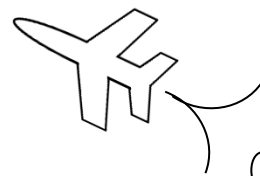


Math on the Fly!



NAME: _____ DATE: _____

Simplifying Rational Expressions

Simplify each rational expression below.

1. $\frac{10w^6x^4y^3z^0}{18wx^4y^7z^8}$

2. $\frac{9x + 36}{3}$

3. $\frac{18x - 12}{24x - 16}$

4. $\frac{16 - 8x}{4x - 8}$

5. $\frac{x^2 + 5x - 6}{x^2 - 6x + 5}$

6. $\frac{x^2 - 9}{x^2 - 6x - 27}$

7. $\frac{2x^2 + 5x + 2}{14x + 7}$

8. $\frac{x^2 - 3x - 40}{x^2 - 25}$

9. $\frac{x^2 + 7x}{x^2 + 14x + 49}$

10. $\frac{2x^2 + x - 6}{3x^2 + 8x + 4}$

SOLUTIONS

$$\boxed{1.} \quad \frac{5w^5}{9y^4z^8}$$

$$\boxed{2.} \quad \begin{array}{c} 3(x + 4) \\ \text{or} \\ 3x + 12 \end{array}$$

$$\boxed{3.} \quad \frac{3}{4}$$

$$\boxed{4.} \quad -2$$

$$\boxed{5.} \quad \frac{x + 6}{x - 5}$$

$$\boxed{6.} \quad \frac{x - 3}{x - 9}$$

$$\boxed{7.} \quad \frac{x + 2}{7}$$

$$\boxed{8.} \quad \frac{x - 8}{x - 5}$$

$$\boxed{9.} \quad \frac{x}{x + 7}$$

$$\boxed{10.} \quad \frac{2x - 3}{3x + 2}$$