

Unit 4 Day 5 Warm Up

Simplify each expression.

1)
$$\frac{\frac{x+3}{x-2} + \frac{4}{x+3}}{4}$$

2)
$$\frac{\frac{1}{x}}{\frac{2}{9} - \frac{1}{x}}$$

3)
$$\frac{\frac{4}{x+3} + \frac{1}{x}}{x^2}$$

4)
$$\frac{\frac{x-5}{3} + \frac{1}{x}}{9}$$

5)
$$\frac{\frac{m^2}{9}}{\frac{m^2}{25} - \frac{5}{3}}$$

6)
$$\frac{\frac{x}{x+3} + \frac{x+3}{x^2}}{x+3}$$

7)
$$\frac{\frac{x}{3}}{\frac{4}{3} - \frac{2x}{3}}$$

8)
$$\frac{\frac{u^2}{u} + \frac{u-4}{16}}{4}$$

Unit 4 Day 5 Warm Up

Simplify each expression.

$$1) \frac{\frac{x+3}{x-2} + \frac{4}{x+3}}{4} \quad \frac{4x^2 + 24x + 36}{x^2 + x + 10}$$

$$2) \frac{\frac{1}{x}}{\frac{2}{9} - \frac{1}{x}} \quad \frac{9}{2x-9}$$

$$3) \frac{\frac{4}{x+3} + \frac{1}{x}}{x^2} \quad \frac{5x+3}{x^4 + 3x^3}$$

$$4) \frac{\frac{x-5}{3} + \frac{1}{x}}{9} \quad \frac{x^2 - 5x + 3}{27x}$$

$$5) \frac{\frac{m^2}{9}}{\frac{m^2}{25} - \frac{5}{3}} \quad \frac{25m^2}{9m^2 - 375}$$

$$6) \frac{\frac{x}{x+3}}{\frac{x}{x+3} + \frac{x+3}{x^2}} \quad \frac{x^4 + 3x^3}{x^3 + x^2 + 6x + 9}$$

$$7) \frac{\frac{x}{3}}{\frac{4}{3} - \frac{2x}{3}} \quad \frac{x}{4-2x}$$

$$8) \frac{\frac{u^2}{u}}{\frac{u}{4} + \frac{u-4}{16}} \quad \frac{16u^2}{5u-4}$$