

1. Simplify. State restrictions on the variable.

$$\frac{x^2 + 4x - 21}{6x^4 - 54x^2} \cdot \frac{8x^2 + 24x}{x^2 + 11x + 28} \cdot \frac{8x}{6x^2(x+4)}$$

$$\frac{(x+7)(x+3)}{(6x^2)(x+3)(x+3)} \cdot \frac{8x(x+3)}{(x+7)(x+4)} \cdot \frac{4}{3x(x+4)}$$

$$x \neq 0, 3, -3, -7, -4$$

2. Simplify. State restrictions on the variable.

$$\frac{x^2 - 25}{6x^3} \div \frac{x^2 + 4x - 5}{4x^2 - 20x}$$

$$\frac{(x+5)(x-5)}{6x^3} \times \frac{4x^2(x-5)}{(x-1)(x+5)}$$

$$\frac{2(x-5)^2}{3x^2(x-1)}$$

$$x \neq 0, 1, -5, 5$$