

$$1. \frac{2x+8}{x^2-16} \cdot \frac{x^2-16}{-15x^2-16} = \frac{2x+8}{-15x^2-16}$$

$$\frac{2x+8}{-15x^2-16}$$

$$\frac{2x+8}{-(15x^2+16)}$$

$$\frac{-2x-8}{15x^2+16}$$

$$2. \frac{3a}{5-a} + \frac{7a}{5-a} + \frac{13m}{5-a} =$$

$$\frac{3a+7a+13m}{5-a}$$

$$\frac{10a+13m}{5-a}$$

$$3. \frac{3-}{(x+3)} \cdot \frac{10}{x^2+7x+12}$$

$$\frac{30}{(x+3)(x^2+7x+12)}$$

$$= \frac{30}{x^3+7x^2+12x+3x^2+2x+36}$$

$$\frac{30}{x^3+10x^2+33x+36}$$

$$4. \frac{6x}{x^2 - 7x + 10} - \frac{1}{x - 5} = \frac{6x - x + 2}{x^2 - 5x - 2x + 10}$$

$$\frac{5x + 2}{x^2 - 7x + 10}$$

$$5. \frac{3x + 5}{8} - \frac{5x - 3}{10}$$

$$5(3x + 5) - 4(5x - 3)$$

$$\frac{15x + 45 - 20x + 12}{40}$$

$$\frac{-5x + 57}{40}$$