

6

$$\frac{5x^2 - 9x + 2}{x^2 - 15x + 50} - \frac{4x^2 - 2x + 32}{x^2 - 15x + 50}$$

$$\frac{5x^2 - 9x + 2 - 4x^2 + 2x - 32}{x^2 - 15x + 50}$$

$$\frac{x^2 - 7x - 30}{x^2 - 15x + 50} \quad \text{PSD}$$

$$\frac{(x-10)(x+3)}{(x-10)(x-5)}$$

$$\frac{x+3}{x-5}$$

7

$$\frac{x^2 - 7x}{x^2 - 9} + \frac{24 - 12x}{9 - x^2}$$

$$\frac{x^2 - 7x}{x^2 - 9} + \frac{24 - 12x}{-x^2 + 9}$$

$$\frac{x^2 - 7x}{x^2 - 9} + \frac{24 - 12x}{-1(x^2 - 9)}$$

$$\frac{x^2 - 7x}{x^2 - 9} - \frac{24 - 12x}{x^2 - 9}$$

$$\frac{x^2 - 7x - 24 + 12x}{x^2 - 9}$$

$$\frac{x^2 + 5x - 24}{x^2 - 9} \quad \text{PSD}$$

$$\frac{(x+8)(x-3)}{(x+3)(x-3)}$$

$$\frac{x+8}{x+3}$$