

Adding and subtracting rational expressions $\frac{6}{x^2-8x} - \frac{3}{x}$

Solution:

$$\frac{6}{x^2-8x} - \frac{3}{x} = \frac{6}{x(x-8)} - \frac{3}{x} = \frac{6}{x(x-8)} - \frac{3(x-8)}{x(x-8)} = \frac{6-3x+24}{x(x-8)} = \frac{30-3x}{x(x-8)}$$

Answer: $\frac{30-3x}{x(x-8)}$