

# Problem of the Week 4

Simplify

$$\frac{\frac{1}{\frac{3x}{x^2 - x - 2} + \frac{5}{x - 2}}}{\frac{12x + 9}{x^2 + 6x + 5} - \frac{4}{x + 5}}$$
$$\frac{\frac{6x}{x + 2} + \frac{3}{x - 3}}{\frac{1}{x - 2} + \frac{3}{6x - 3}}$$
$$\frac{2x - 1}{x^2 - x - 6}$$