

Add and Subtract Rational Expressions

Ex 1: Perform the indicated operation and simplify.

A. $\frac{3x^2}{x-8} + \frac{6x}{x-8}$

B. $\frac{4x^2}{2x-1} - \frac{1}{2x-1}$

Ex 2: Perform the indicated operation and simplify.

A. $\frac{x}{x^2-4x+3} + \frac{5}{x-3}$

B. $\frac{2}{x^2-25} - \frac{3x}{x-5}$

C. $\frac{12}{5x} + \frac{7}{6x}$

E. $2 + \frac{2}{x^2-2}$

D. $\frac{x-2}{x^2+x-12} + \frac{x}{x^2-2x-3}$

F. $\frac{x}{x+3} - \frac{3}{x+2} - \frac{1}{x^2+5x+6}$

Ex 3: Simplify the Complex Fractions.

A.
$$\frac{\frac{2+\frac{3}{x-1}}{1}}{2x-2}$$

B.
$$\frac{\frac{\frac{3}{x+2}+\frac{2}{3}}{2x-1}}{x+2-x}$$

C.
$$\frac{\frac{\frac{3x-2}{2x-1}}{\frac{5}{4x}-\frac{x}{2x-1}}}{1}$$