

Homework

p. 586: 17-27 (odds)

UNLIKE DENOMINATORS Perform the indicated operation and simplify.

17. $\frac{8}{3x^2} - \frac{5}{4x}$

19. $\frac{12}{x^2 + 5x - 24} + \frac{3}{x - 3}$

21. $\frac{9}{x - 3} + \frac{2x}{x + 1}$

23. $\frac{-15x}{x^2 - 8x + 16} + \frac{12}{x - 4}$

25. **ERROR ANALYSIS** Describe and correct the error in adding the rational expressions.

$$\frac{x}{x+2} + \frac{4}{x-5} = \frac{x+4}{(x+2)(x-5)}$$



UNLIKE DENOMINATORS Perform the indicated operation(s) and simplify.

27. $\frac{x}{x^2 - 9} + \frac{x + 1}{x^2 + 6x + 9}$