

P.I. A.A.17: Add or subtract fractional expressions with monomial or like binomial denominators

Simplify:

1. $\frac{x+4}{6x} + \frac{x-4}{6x}$

2. $\frac{-3x+5}{-48x} + \frac{-3x-5}{-48x}$

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

4. Simplify $\frac{4}{5x} - \frac{3}{5x}$.

[A] $\frac{1}{5x}$ [B] $-\frac{1}{5x}$ [C] $-\frac{1}{10x}$

[D] $\frac{7}{10x}$ [E] $\frac{1}{10x}$

Simplify:

5. $\frac{8z}{4z-4} - \frac{8}{4z-4}$

6. $\frac{9z}{3z-4} - \frac{12}{3z-4}$

7. $\frac{6z}{3z-4} - \frac{8}{3z-4}$

Subtract:

8. $\frac{3x+2}{x^2-25} - \frac{2x-3}{x^2-25}$

[A] $-\frac{1}{x-5}$

[B] $\frac{1}{x-5}$

[C] $\frac{1}{x+5}$

[D] $\frac{x-1}{x^2-25}$

9. $\frac{5x+3}{x^2-64} - \frac{4x-5}{x^2-64}$

[A] $\frac{1}{x-8}$

[B] $\frac{x-2}{x^2-64}$

[C] $\frac{1}{x+8}$

[D] $-\frac{1}{x-8}$

10. $\frac{-4x+2}{x^2-81} - \frac{-3x-7}{x^2-81}$

[A] $\frac{-x-5}{x^2-81}$

[B] $-\frac{1}{x-9}$

[C] $-\frac{1}{x+9}$

[D] $\frac{1}{x+9}$

Integrated Algebra Practice: A.A.17 #1

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[1] $\frac{1}{3}$ _____

[2] $\frac{1}{8}$ _____

[3] $-\frac{1}{4}$ _____

[4] A _____

[5] 2 _____

[6] 3 _____

[7] 2 _____

[8] B _____

[9] A _____

[10] C _____