

NAME: \_\_\_\_\_

*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]  $\frac{1}{x+9}$

[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 \_\_\_\_\_