

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

*P.I. A2.A.16: Perform arithmetic operations with rational expressions and rename to lowest terms*

Add:

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

[A]  $\frac{7}{x+5}$

[B]  $\frac{7}{x^2-25}$

[C]  $\frac{7x+5}{x^2-25}$

[D]  $\frac{7x+5}{7}$

2.  $\frac{4}{x+8} + \frac{3}{x-8}$

[A]  $\frac{7}{x+8}$

[B]  $\frac{7x-8}{7}$

[C]  $\frac{7x-8}{x^2-64}$

[D]  $\frac{7}{x^2-64}$

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

[A]  $\frac{11}{x+1}$

[B]  $\frac{11x+7}{x^2-1}$

[C]  $\frac{11}{x^2-1}$

[D]  $\frac{11x+7}{11}$

4.  $\frac{7}{x+3} + \frac{4}{x-3}$

5.  $\frac{9}{x+6} + \frac{2}{x-6}$

6.  $\frac{5}{x+1} + \frac{8}{x-1}$

7.  $\frac{7}{x+5} + \frac{2}{x-5}$

8.  $\frac{2}{c-3} + \frac{2}{c^2-9}$

[A]  $\frac{4c}{(c-3)(c+3)}$

[B]  $\frac{2(c-2)}{(c-3)(c+3)}$

[C]  $\frac{2(c+4)}{(c-3)(c+3)}$

[D]  $\frac{4}{(c-3)(c+3)}$

9.  $\frac{5}{n-4} + \frac{5}{n^2-16}$

[A]  $\frac{5(n+5)}{(n-4)(n+4)}$

[B]  $\frac{5(n-3)}{(n-4)(n+4)}$

[C]  $\frac{10n}{(n-4)(n+4)}$

[D]  $\frac{10}{(n-4)(n+4)}$

10.  $\frac{6}{q+5} + \frac{6}{q^2-25}$

[A]  $\frac{6(q+6)}{(q+5)(q-5)}$

[B]  $\frac{6(q-4)}{(q+5)(q-5)}$

[C]  $\frac{12}{(q+5)(q-5)}$

[D]  $\frac{12q}{(q+5)(q-5)}$

[1]  $\frac{C}{\quad}$

[2]  $\frac{C}{\quad}$

[3]  $\frac{B}{\quad}$

[4]  $\frac{11x-9}{x^2-9}$

[5]  $\frac{11x-42}{x^2-36}$

[6]  $\frac{13x+3}{x^2-1}$

[7]  $\frac{9x-25}{x^2-25}$

[8]  $\frac{C}{\quad}$

[9]  $\frac{A}{\quad}$

[10]  $\frac{B}{\quad}$