Algebra 2 Name_____

4.2 Adding & Subtracting Rational Functions

Date_____ Period____

Simplify each expression.

1) $\frac{6x}{x+5} + \frac{2}{5x+1}$

2) $\frac{3r}{2r-2} + \frac{6r}{3r+5}$

3) $\frac{2b}{3} - \frac{4b-6}{3b-18}$

4) $\frac{2}{2n-5} - \frac{4}{n+3}$

5) $\frac{2x}{2x-2} + \frac{3}{2x+6}$

6) $\frac{3}{b+4} + \frac{b+3}{b-1}$

7) $\frac{3}{3x} - \frac{x-5}{3x^3+9x^2+6x}$

8) $\frac{6n}{n-1} - \frac{2n}{4n^2-12n}$

9) $\frac{4p}{2p-3} + \frac{4}{p+6}$

10) $\frac{4}{4x^2+8x} + \frac{4}{x+3}$

11) $\frac{2}{n-6} - \frac{4n}{2n^2+12n}$

12) $\frac{3x}{x+4} - \frac{3}{3x-3}$