Math 3A

Name_____

6.2 Add and Subtract Rational Expressions

Period____

Simplify each expression.

1) $\dfrac{a+b}{6b^2} + \dfrac{a-4b}{6b^2}$

2) $\dfrac{x-5y}{20yx^2} + \dfrac{x+6y}{20yx^2}$

3) $\dfrac{x-5}{15(x+1)} + \dfrac{x+3}{15(x+1)}$

4) $\dfrac{v+3}{6(v+4)} - \dfrac{v-1}{6(v+4)}$

5) $\dfrac{5x-1}{4x^3(x-1)(2x-3)} + \dfrac{x+3}{4x^3(x-1)(2x-3)}$

6) $\dfrac{x+2}{2(x+2)(x-1)} + \dfrac{x-6}{2(x+2)(x-1)}$

7) $\dfrac{3}{3x} + \dfrac{6x-2}{2x(x-6)}$

8) $\dfrac{4}{2(p-3)} + \dfrac{6p}{p+4}$

9) $\dfrac{n+1}{3n} - \dfrac{n+4}{3(n-1)}$

10) $\dfrac{4a}{3a} - \dfrac{5a-4}{3(2a-3)(a+5)}$

11) $\dfrac{3v}{v-4} - \dfrac{6}{5(v-5)}$

12) $\dfrac{5}{n-1} + \dfrac{6n}{3n+1}$

13) $\dfrac{4b}{2b+3} - \dfrac{2}{b+6}$

14) $\dfrac{3}{n-3} - \dfrac{3}{2n+4}$

15) $\dfrac{3}{v+6} - \dfrac{6}{6v^2+6v}$

16) $\dfrac{x+4}{2x^2-6x-20} + \dfrac{2}{5x^2}$

-2-