Name_____

HW #2: Adding and Subtracting Rational Expressions

Simplify each expression.

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

2) $\dfrac{2}{2p}-\dfrac{2}{2p^2-4p}$

3) $\dfrac{3x}{x-1}+\dfrac{3x}{x-2}$

4) $\dfrac{2}{r+2}+\dfrac{r+1}{3}$

5) $\dfrac{3n}{2n-6}+\dfrac{2}{2n}$

6) $\dfrac{3r}{2r+2}+\dfrac{3r}{2}$

7) $\dfrac{3}{2v-2}+\dfrac{3v}{2}$

8) $\dfrac{3x}{2}+\dfrac{2}{x+3}$

9) $\dfrac{2}{p+2}+\dfrac{2p}{3p}$

10) $\dfrac{3}{n+3}+\dfrac{2n}{2n+2}$

11) $\dfrac{5}{2} - \dfrac{2m}{9m^2 - 12m}$

12) $\dfrac{5}{4n - 10} - \dfrac{2}{2n}$

13) $\dfrac{6}{4} - \dfrac{3x}{x + 1}$

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

15) $\dfrac{5}{3a} - \dfrac{6a}{4a + 10}$

16) $\dfrac{4p}{3p} - \dfrac{3}{2p + 12}$

17) $\dfrac{2a}{a + 2} - \dfrac{5a}{a - 3}$

18) $\dfrac{2p}{p - 5} - \dfrac{p - 5}{p + 4}$

19) $\dfrac{3}{3x + 18} - \dfrac{5}{2}$

20) $\dfrac{2}{3x + 12} - \dfrac{3x}{2}$