

Name: _____

Unit 8: Rational Functions

Date: _____ Bell: _____

Homework 2: Adding & Subtracting
Rational Expressions

**** This is a 2-page document! ****

Directions: Find the sum/difference. Give your answer in simplest form.

1. $\frac{9w^3}{2w^5} + \frac{3w^3}{2w^5}$

2. $\frac{8k+9}{18} - \frac{2k+1}{18}$

3. $\frac{x^2+5x}{x+7} - \frac{14}{x+7}$

4. $\frac{3y^2-19y}{y^2-25} + \frac{y^2-y}{y^2-25}$

5. $\frac{8m^2}{10m^3+60m^2} - \frac{6m^2-12m}{10m^3+60m^2}$

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

7. $\frac{5x}{4} + \frac{x}{6}$

8. $\frac{a}{12b} - \frac{b}{8a}$

9. $\frac{7}{n+9} + \frac{12}{4n+36}$

10. $\frac{p^2-9p}{p^2-4p-45} - \frac{2}{p+5}$

$$11. \frac{k+5}{k+1} + \frac{8}{k^2-1}$$

$$12. \frac{22w+11}{8w^2-6w} - \frac{3}{2w}$$

$$12. \frac{x}{2x-5} - \frac{4x+15}{4x^2-25}$$

$$14. \frac{8a-18}{3a^2+14a+8} + \frac{7}{3a+2}$$

$$15. 4 - \frac{5}{4m+8}$$

$$16. \frac{3c}{c-4} - \frac{2}{5}$$

$$17. \frac{6}{v+4} + \frac{2}{v-6}$$

$$18. \frac{r}{r^2-4} + \frac{1}{r^2-6r+8}$$