

## 7.2 Adding & Subtracting Rationals with Common Denominators Practice

Directions: Simplify the expressions below.

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

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

$$\frac{12w^3}{2w^5}$$

$$\frac{6}{w^2}$$

$w \neq 0$

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

$$\frac{3k+4}{9}$$

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

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

$x \neq -7$

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

$$\frac{4y}{y+5}$$

$y \neq -5, 5$

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

$$\frac{1}{5m}$$

$m \neq 0, -6$

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

$$\frac{v-8}{5v-1}$$

$v \neq \frac{1}{5}, -2$