

KEY



Chapter 11 Review #2

Simplify each.

1. $\frac{9}{15a-15}$ $\frac{3}{5(a-1)}$

2. $\frac{p+4}{p^2+6p+8}$ $\frac{1}{p+2}$

3. $\frac{2a^2+10a}{3a^2+15a}$ $\frac{2}{3}$

4. $\frac{x-8}{(x+6)(x-8)} \cdot \frac{4x(x+10)}{x+10}$ $\frac{4x}{x+10}$

5. $\frac{2}{v^2-12v+27} \cdot \frac{(v-3)(v-9)}{3}$ $\frac{2}{3}$

6. $\frac{x^2-16}{x-9} \cdot \frac{x^2+x-90}{x^2+14x+40}$ $x-4$

7. $\frac{(v-7)(v+8)}{(v+8)(v-10)} \div \frac{1}{v-10}$ $v-7$

8. $\frac{2b^2-12b}{b+5} \div \frac{b-6}{b+5}$ $2b$

9. $\frac{1}{n+9} \div \frac{6-n}{3n-18}$ $\frac{3}{n+9}$

10. $\frac{1}{5p^2} \div \frac{9p-36}{5p^3-35p^2}$ $\frac{p-7}{9(p-4)}$

1. $\frac{u-v}{8v} + \frac{6u-3v}{8v}$

$$\frac{7u-4v}{8v}$$

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

$$\frac{5a+6}{(a+2)(a+1)}$$

3. $\frac{r+6}{3r-6} + \frac{r+1}{3r-6}$

$$\frac{2r+7}{3(r-2)}$$

4. $\frac{6}{x-1} - \frac{5x}{4}$

$$\frac{-5x^2+5x+24}{4(x-1)}$$

5. $\frac{3}{x+7} + \frac{4}{x-8}$

$$\frac{7x+4}{(x+7)(x-8)}$$

6. $\frac{7}{3} - \frac{8}{12x-8}$

$$\frac{21x-20}{3x-2}$$

7. $\frac{2}{n+8} + \frac{4}{n+1}$

$$\frac{2(3n+17)}{(n+8)(n+1)}$$

8. $\frac{3}{8} - \frac{3}{3x+4}$

$$\frac{3(3x-4)}{8(3x+4)}$$

9. $\frac{4}{x+1} - \frac{2}{x+2}$

$$\frac{2(x+3)}{(x+1)(x+2)}$$

10. $\frac{7n}{n+1} + \frac{8}{n-7}$

$$\frac{7n^2-4(n+8)}{(n+1)(n-7)}$$