Chapter 11 Review #2

Simplify each.

1. $\frac{9}{15a-15}$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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