

Section P.5 WS 2

Simplify each expression.

1) $\frac{r+6}{r^2+13r+42} \cdot \frac{3r^2}{r-2}$

2) $\frac{b-6}{7b+63} \cdot \frac{7b-21}{b-6}$

3) $\frac{1}{2b+2} \div \frac{10}{2b^2+18b+16}$

4) $\frac{1}{p+8} \div \frac{2p-9}{2p^2+5p-63}$

5) $\frac{6}{2k-2} + \frac{k+1}{2k-2}$

6) $\frac{x-3}{20x+12} - \frac{x-1}{20x+12}$

7) $\frac{5x}{3x+3} - \frac{2}{x+5}$

8) $\frac{2}{a+6} + \frac{5}{a+5}$

9) $\frac{2}{3x-6} - \frac{2}{x+1}$

10) $\frac{3}{2n+4} + \frac{2}{n+4}$

11) $\frac{3}{6n} - \frac{4n-6}{n^2+9n+18}$

12) $\frac{6}{2x} - \frac{5x-4}{3x^2+3x-18}$