

2.6N – Adding and Subtracting Rational Expressions

A. Finding the least common denominator:

1. $\frac{2}{7} + \frac{4}{21}$

2. $\frac{3}{5} - \frac{1}{2}$

3. $\frac{3}{10} + \frac{5}{4}$

4. $\frac{3}{7x} - \frac{4}{21x^2}$

5. $\frac{4}{v+4} + \frac{5}{v+1}$

6. $\frac{2x}{5x+5} - \frac{5x}{x+1}$

7. $\frac{4v}{6v-6} + \frac{6v}{v+6}$

8. $\frac{r+8}{r^2-6r-16} - \frac{5}{2r^2+4r}$

9. $\frac{5}{3x+12} + \frac{7}{9x+36}$

10. $\frac{2}{x^2+11x+30} - \frac{4}{x^2-36}$

11. $\frac{x-2}{2x^2+x-10} + \frac{x+4}{2x+5}$

B. Go back through each problem and perform the indicated operation. Don't forget to simplify when possible.