

Read section 1.6 of your text.

Simplify the following.

1.  $\frac{12}{32}$

2.  $\frac{x^2 + x - 6}{x^2 - 9}$

3.  $\frac{2}{x^2 - x - 6} \div \frac{6x}{x^2 - 4}$

4.  $\frac{2}{5} + \frac{7}{2}$

5.  $\frac{3x + 7}{x^2 - 25} + \frac{2x^2 + 7}{x^2 - 25}$

6.  $\frac{2}{x + 7} + \frac{3x}{x - 7}$

7.  $\frac{1}{x-1} + \frac{3}{x-3} - \frac{x^2}{x^2-4x+3}$

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

9.  $\frac{x^2-x-6}{2x^2+x-6} \cdot \frac{2x^2+7x-15}{x^2-9}$

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