

Perform the indicated operations. Express your answers in simplest form.

1.
$$\frac{1}{6x^2} + \frac{x+1}{9x^3} =$$

2.
$$\frac{3x^2+4x-6}{8x^2+2x-15} + \frac{x^2-4x-2}{8x^2+2x-15} =$$

3.
$$\frac{x+4}{3x^2-12} + \frac{x+1}{3x^2+6x} =$$

4.
$$\frac{3}{6x^2+x-2} + \frac{2}{4x^2-4x+1} =$$

5.
$$\frac{x-5}{2x+2} + \frac{x-2}{x^2+x} =$$

6.
$$\frac{x-1}{x^2-4} + \frac{2x+3}{2x^2+3x-2} =$$

Perform the indicated operations. Express your answers in simplest form.

$$7. \quad \frac{x+2}{10x} - \frac{2x-1}{4x} =$$

$$8. \quad \frac{x^2+3x-5}{x^2-9} - \frac{x^2-x+7}{x^2-9} =$$

$$9. \quad \frac{x-3}{5x^2+3x} - \frac{x-5}{5x^2-7x-6} =$$

$$10. \quad \frac{3x+1}{2x^2-x-15} - \frac{x-5}{x^2-6x+9} =$$