

Name: _____

Date: _____

Simplify each complex fraction. Simplify if possible. State any restrictions on the variables.

1)
$$\frac{\frac{2}{x} + \frac{3}{y}}{\frac{-5}{x} + \frac{7}{y}}$$

2)
$$\frac{\frac{5}{x} - \frac{2}{y}}{\frac{-4}{x} - \frac{6}{y}}$$

3)
$$\frac{1 + \frac{2}{x}}{2 + \frac{3}{2x}}$$

4)
$$\frac{\frac{1}{xy} - \frac{1}{y^2}}{\frac{1}{x^2y} - \frac{1}{xy^2}}$$

5)
$$\frac{\frac{2}{x+4} + 2}{1 + \frac{3}{x+4}}$$

6)
$$\frac{\frac{3}{x-2} - 5}{2 - \frac{4}{x-2}}$$