

1. Simplify the following complex fractions.

a.  $\frac{\frac{25}{3}}{\frac{5}{4}}$

b.  $\frac{\frac{y}{t}}{\frac{x}{r}}$

c.  $\frac{\frac{1}{6} - \frac{3}{4}}{\frac{3}{2} + \frac{1}{3}}$

2. Simplify the following complex rational expressions. If applicable, write any domain changes.

a.  $\frac{\frac{6a-6}{a}}{\frac{a-5}{a}}$

c.  $\frac{8 + \frac{1}{b-6}}{\frac{1}{b-6} - \frac{1}{6}}$

b.  $\frac{2 + \frac{1}{p}}{p + 10}$

d.  $\frac{\frac{1}{p-4} + \frac{4}{p-4}}{5 - \frac{1}{p+4}}$

$$\text{e. } \frac{\frac{6x}{x^2-25} - 5}{\frac{2}{x+5} + \frac{1}{x-5}}$$

$$\text{h. } \frac{\frac{1}{u+1} + \frac{5}{u-1}}{10 - \frac{1}{u-1}}$$

$$\text{f. } \frac{\frac{c}{c^2-9} - \frac{1}{c^2-9}}{\frac{1}{c+9}}$$

$$\text{i. } \frac{\frac{4}{x}}{20 + 4t}$$

$$\text{g. } \frac{\frac{7}{n-1} - 2}{\frac{1}{n-1} + \frac{1}{n-9}}$$

$$\text{j. } \frac{\frac{2}{y} + \frac{10}{y}}{\frac{2}{y} - \frac{12}{x}}$$