

## Simplifying Compound Fractions

Date \_\_\_\_\_ Period \_\_\_\_\_

**Simplify each expression.**

$$1) \frac{\frac{3}{a^2}}{\frac{3}{a^2} + \frac{3}{a+3}}$$

$$2) \frac{\frac{x}{\frac{x}{3} - \frac{3}{x}}}$$

$$3) \frac{\frac{12}{x}}{\frac{1}{3} + \frac{3}{x}}$$

$$4) \frac{\frac{x^2}{\frac{25}{x+1} + \frac{5}{x+1}}}$$

$$5) \frac{\frac{5}{\frac{x}{20} - \frac{25}{x}}}$$

$$6) \frac{\frac{\frac{1}{3} + \frac{1}{a}}{\frac{9}{a}}}$$