

Lesson 11: Simplifying Complex Fractions

Simplify each complex fraction.

$$1) \frac{\frac{2}{3}}{\frac{6}{8}}$$

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

$$3) \frac{\frac{x}{6}}{\frac{x^3}{4}}$$

Simplify each complex fraction.

$$4) \frac{\frac{a+2}{a}}{3a}$$

$$5) \frac{\frac{a+3b}{2a}}{6b}$$

$$6) \frac{\frac{x}{6}}{\frac{x^3}{4}}$$

Simplify each complex fraction.

$$7) \frac{\frac{2}{a-4} + \frac{1}{a+4}}{\frac{2}{a-4} - \frac{1}{a+4}}$$

$$8) \frac{\frac{2}{b-2} + \frac{1}{b-3}}{\frac{2}{b-2} - \frac{1}{b-3}}$$

$$9) \frac{\frac{x}{x-4} + \frac{1}{x+2}}{\frac{4}{x-4} - \frac{1}{x+2}}$$