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Chapter 11: Rational and Irrational Expressions

Simplify Complex Fractions

 Simplify each expression.

$$1) \frac{\frac{12}{3}}{\frac{2}{15}} =$$

$$2) \frac{\frac{14}{3}}{-6\frac{2}{11}} =$$

$$3) \frac{-1\frac{11}{12}}{-3} =$$

$$4) \frac{\frac{4}{5}}{\frac{2}{25}\frac{5}{16}} =$$

$$5) \frac{8}{\frac{8}{x} + \frac{2}{3x}} =$$

$$6) \frac{\frac{x}{2}}{\frac{2}{5} - \frac{2}{x}} =$$

$$7) \frac{\frac{2}{x+2}}{\frac{8}{x^2+6x+8}} =$$

$$8) \frac{\frac{12}{x-1}}{\frac{12}{5} - \frac{12}{25}} =$$

$$9) \frac{1 + \frac{2}{x-4}}{1 - \frac{6}{x-4}} =$$

$$10) \frac{\frac{x+6}{4}}{\frac{x^2}{2} - \frac{5}{2}} =$$

$$11) \frac{\frac{x-2}{8}}{\frac{x-6}{x-2} + \frac{2}{9}} =$$

$$12) \frac{9}{\frac{9}{x} + \frac{2}{3x}} =$$

$$13) \frac{\frac{x^2}{4}}{\frac{4}{5} - \frac{4}{x}} =$$

$$14) \frac{\frac{4}{x-3} - \frac{2}{x+2}}{8} = \frac{\quad}{x^2+6x+8}$$

$$15) \frac{\frac{16}{x-1}}{\frac{16}{5} - \frac{16}{25}} =$$

$$16) \frac{2 + \frac{6}{x-4}}{2 - \frac{4}{x-4}} =$$

$$17) \frac{\frac{1}{x^2} - \frac{x+5}{4}}{\frac{2}{2} - \frac{4}{5}} =$$

$$18) \frac{\frac{x-6}{2} - \frac{x-2}{36}}{\frac{x-6}{x-2} + \frac{4}{9}} =$$