



Chapter 11: Rational and Irrational Expressions

Multiplying Rational Expressions

Simplify each expression.

$$1) \frac{84}{3} \times \frac{48x}{95} =$$

$$2) \frac{53}{43} \times \frac{46x^2}{31} =$$

$$3) \frac{79x}{25} \times \frac{85}{27x^2} =$$

$$4) \frac{96x^3}{7x} \times \frac{119}{68x} =$$

$$5) \frac{96}{38x} \times \frac{25}{45} =$$

$$6) \frac{93}{21x} \times \frac{34x}{51x} =$$

$$7) \frac{85}{16x} \times \frac{48x}{95} =$$

$$8) \frac{2}{43x} \times \frac{46x^5}{38x} =$$

$$9) \frac{27x}{81} \times \frac{14x}{51x^2} =$$

$$10) \frac{5x+50}{x+10} \times \frac{x-2}{5} =$$

$$11) \frac{x-7}{x+6} \times \frac{10x+60}{x-7} =$$

$$12) \frac{1}{x+10} \times \frac{10x+30}{x+3} =$$

$$13) \frac{12x}{14} \times \frac{14}{16x} =$$

$$14) \frac{79x}{25} \times \frac{85}{27x^2} =$$

$$15) \frac{8(x+1)}{7x} \times \frac{9}{8(x+1)} =$$

$$16) \frac{2(x+6)}{4} \times \frac{x-3}{2(x-1)} =$$

$$17) \frac{9(x+4)}{x+4} \times \frac{9x}{9(x-5)} =$$

$$18) \frac{4x+20}{x+5} \times \frac{x-2}{4} =$$

$$19) \frac{x-3}{x+4} \times \frac{5x+30}{x-5} =$$

$$20) \frac{1}{x+4} \times \frac{4x+20}{x+5} =$$

$$21) \frac{3x^2+18x}{x+6} \times \frac{1}{x+8} =$$

$$22) \frac{21x^2-21x}{18x^2-18x} \times \frac{6x}{6x^2} =$$

$$23) \frac{1}{x-9} \times \frac{x^2+6x-27}{x+9} =$$

$$24) \frac{x^2-10x+25}{10x-100} \times \frac{x-10}{45-9x} =$$