

Dividing Fractions

$$\frac{12a^2b^2}{21xy^2} \div \frac{4ab^2}{7y^2} = \frac{12a^2b^2}{21xy^2} \cdot \frac{7y^2}{4ab^2} = \frac{a}{x}$$

$$1. \quad \frac{b+2}{b^2-9} \div \frac{1}{b-3} =$$

$$7. \quad \frac{12x+36}{x^2-2x-8} \div \frac{15x+45}{x^2+x-20} =$$

$$2. \quad \frac{c^2+2cd}{2cd+d^2} \div \frac{c^3+2c^2d}{cd+d^2} =$$

$$8. \quad \frac{x^2-y^2}{x^2+2xy+y^2} \div \frac{x-y}{x+y} =$$

$$3. \quad \frac{x^2+3x^3}{4-x^2} \div \frac{x+4x^2+3x^3}{2x+x^2} =$$

$$9. \quad (y^2-9) \div \frac{y^2+8y+15}{2y+10} =$$

$$4. \quad \frac{a^2-a-20}{a^2+7a+12} \div \frac{a^2-7a+10}{a^2+9a+18} =$$

$$10. \quad \frac{x^2-4x+4}{3x-6} \div (x-2) =$$

$$5. \quad \frac{6a^2-a-2}{12a^2+5a-2} \div \frac{4a^2-1}{8a^2-6a+1} =$$

$$11. \quad \frac{(2a)^3}{(4bc)^3} \div \frac{16a^2}{8b^2c^3} =$$

$$6. \quad \frac{a^3-6a^2+8a}{5a} \div \frac{2a-4}{10a-40} =$$

$$12. \quad \frac{\frac{26c^2}{5c^2d}}{\frac{13c^3}{25d^3}} =$$