

# Math in Living C O L O R

## 2.08 Fractions in Review

*Intermediate Algebra: One Step at a Time*

Page 210-215: #2, 4, 5, 7, 8, 9, 15, 16, 17, 20, 21, 24, 27

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Section 2.08, with explanations, examples, and exercises, coming soon!

2. 
$$\frac{x^3 y^2}{6xy + 12x} \div \frac{y^3}{y^2 - 4}$$

Solution: [\(See P. 160 # 28.\)](#)

4. 
$$(x^{-2} - y^{-2})^{-1}$$

Solution: [\(See P. 199 # 47.\)](#)

5. 
$$P = \frac{xy}{a + bx}, \text{ solve for } x.$$

Solution: [\(See P. 209 # 17.\)](#)

7. 
$$\frac{x^3 - 27}{x^3 + 3x^2 - 9x - 27} \cdot \frac{(x - 3)^3}{x^2 + 3x + 9}$$

Solution: [\(See P. 163 # 39.\)](#)

8. 
$$\frac{x^3 - 8}{x^3 - 2x^2 - 2xy + 4y}$$

Solution: [\(See P. 156 # 54.\)](#)

$$9. \quad \frac{5}{x^2 - 10x + 25} - \frac{3}{x^2 - 5x}$$

Solution: (See P. 181 # 37.)

$$15. \quad \frac{x}{x^2 - 25} - \frac{5}{5 - x}$$

Solution: (See P. 189 # 23.)

$$16. \quad \frac{x}{3} - \frac{x+2}{2} = 1$$

Solution: (See P. 204 # 16.)

$$17. \quad \frac{x^2 - 8xy + 16y^2}{x^2 - 3xy - 10y^2} \cdot \frac{x^2 - 4y^2}{x^2 - 5xy + 4y^2}$$

Solution: (See P. 162 # 26.)

$$20. \quad (3x^{-1} - 3y^{-1})^{-1}$$

Solution: (See P. 199 # 51.)

$$21. \quad \frac{x}{x-5} + \frac{12}{x-2} = \frac{15}{(x-5)(x-2)}$$

Solution: (See P. 212 # 21.)

$$24. \quad \frac{2x - (2x)^{-1}}{1 + (2x)^{-1}}$$

Solution: (See P. 199 # 41.)

$$27. \quad \frac{x(x+1)}{6} - \frac{x}{3} = 1$$

Solution: (See P. 204 # 18.)