

9-4 THROUGH 9-6 ANSWERS

PROBLEM SET 9-4

1. $\frac{7}{15x^2}; x \neq 0, y \neq 0$

2. $\frac{xy}{4}; x \neq 0, y \neq 0$

3. $\frac{4}{3}; y \neq \frac{1}{2} \text{ or } 3$

4. $\frac{4x+24}{9x+24}; x \neq 3 \text{ or } -\frac{8}{3}$

5. $\frac{2}{3x^2y^2}; x \neq 0, y \neq 0$

6. $\frac{y}{2x^2}; x \neq 0, y \neq 0$

7. $\frac{5x+5y}{3}; x \neq y$

8. $1; y \neq -2 \text{ or } 4$

9. $\frac{x^2-x}{3x+3}; x \neq -1, 1 \text{ or } 0$

10. $\frac{4y-12}{y^2+5y}; y \neq -5, 0 \text{ or } 2$

11. $\frac{x-2}{x^2-x}; x \neq 0$

12. $1; x \neq -2, -1, 2 \text{ or } 3$

13. $\frac{a+3}{a^2-6a+9}; a \neq -4, -3 \text{ or } 3$

14. $\frac{2b-10}{b+5}; b \neq -5$

15. $\frac{4}{x}; x \neq -5, 0, 1 \text{ or } 4$

16. $\frac{18x}{x^2+12x+27}; x \neq -9, -3 \text{ or } 3$

17. $\frac{x+1}{x-4}; x \neq -3, \frac{1}{2}, 2 \text{ or } 4$

18. $\frac{x+1}{x-1}; x \neq -2, -\frac{1}{2}, \frac{1}{2} \text{ or } 1$

PROBLEM SET 9-5

1. $\frac{3x-8}{4x^2}$

2. $\frac{4x^2+4x-3}{x^2-1}$

3. $\frac{7x-17}{x^2-9}$

4. $\frac{4x-1}{4x^2-2x}$

5. $\frac{12y-63}{y^2-7y}$

6. $\frac{xy+8y+4}{2xy^2}$

7. $\frac{x-6}{x^2-9}$

8. $\frac{x^2-24}{3x^2+9x}$

9. $\frac{2}{5}$

10. $\frac{3x+2y}{7x-5y}$

11. x

12. $\frac{-5x+13}{2x-8}$

PROBLEM SET 9-6

1. 3

2. No Solution

3. No Solution

4. 30

5. 5

6. $\frac{38}{21}$

7. No Solution

8. -4

9. 21

10. -4

11. No Solution

12. -4

13. $1, -\frac{2}{3}$

14. -1