

Chapter 8

Elementary Algebra, 3rd Edition Answers to Odd Exercises

Section 8.1

3. $x \neq 8$ 5. $x \neq 4$ 7. $x \neq -\frac{1}{3}$
9. $\frac{y}{2}$ 11. $\frac{-3m}{2}$ 13. $\frac{y}{2}$
15. $\frac{x+6}{x}$ 17. $\frac{r+5}{r+3}$ 19. $\frac{h+8}{h-1}$
21. $\frac{m(m-4)}{(m+4)(m+5)}$ 23. $\frac{3y-2}{3y+2}$ 25. $\frac{3(y+4)}{2(y-4)}$

Section 8.2

3. $\frac{4}{y}$ 5. $\frac{10}{3b^2}$ 7. $\frac{x(x+3)}{2(x-3)}$ 9. $\frac{8}{3}$
11. $6x$ 13. $\frac{x-2}{3x-8}$ 15. $\frac{x}{x+1}$ 17. $\frac{2}{y-3}$
19. $\frac{-x}{2(x+2)}$ 21. $4x$

Section 8.3

3. $\frac{2y+5}{7y}$ 5. $\frac{3}{y-2}$ 7. 3 9. $\frac{3}{x}$
11. $\frac{3}{x-2}$ 13. $\frac{3v}{v-4}$ 15. $\frac{y-2}{y-5}$ 17. $\frac{y+5}{y-5}$
19. $w+3$ 21. $\frac{1}{c}$ 23. $\frac{x}{x+3}$ 25. $\frac{x+4}{x-2}$
27. $\frac{y-6}{y-5}$ 29. $\frac{2}{x}$ 31. $\frac{2}{3x}$

Section 8.4

3. $\frac{15x}{24x^3}$ and $\frac{4x+4}{24x^3}$
5. $\frac{x^2-2x-8}{x(x-4)(x+5)}$ and $\frac{3x^2+x}{x(x-4)(x+5)}$

7. LCD = $18x^2$; $\frac{8x}{18x^2}$ and $\frac{15}{18x^2}$
9. LCD = $12x^2$; $\frac{3x+9}{12x^2}$ and $\frac{5x}{12x^2}$
11. LCD = $30x^2$; $\frac{15x}{30x^2}$ and $\frac{5x+10}{30x^2}$
13. LCD = $(x-1)(x+1)$; $\frac{2x^2+2x}{(x-1)(x+1)}$ and $\frac{3x-3}{(x-1)(x+1)}$
15. LCD = $x(x-4)$; $\frac{6x-24}{x(x-4)}$ and $\frac{x^2}{x(x-4)}$
17. LCD = $x(x+2)$; $\frac{8x+16}{x(x+2)}$ and $\frac{3}{x(x+2)}$
19. LCD = $x(x-2)(x+2)$; $\frac{x^2}{x(x-2)(x+2)}$ and $\frac{3x-6}{x(x-2)(x+2)}$
21. LCD = $2x(x-2)$; $\frac{x^2+x}{2x(x-2)}$ and $\frac{6x-6}{2x(x-2)}$
23. LCD = $(x+5)(x-5)(x-2)$; $\frac{10x-20}{(x+5)(x-5)(x-2)}$ and $\frac{7x-35}{(x+5)(x-5)(x-2)}$
25. $\frac{3}{x+5}$
27. $\frac{x-6}{x(x+6)}$