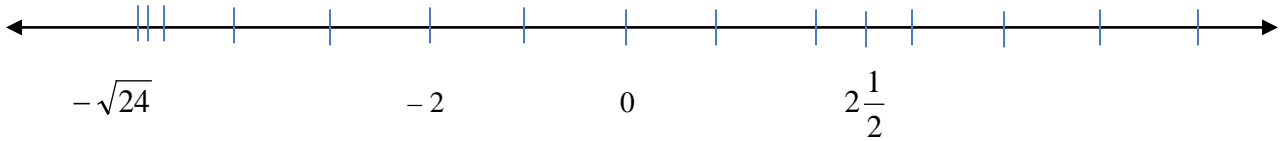


CHAPTER 1 ANSWERS

PROBLEM SET 1-1

1. N, W, Z, \mathfrak{R} , R
2. \mathfrak{R} , I
3. \mathfrak{R} , I
4. W, Z, \mathfrak{R} , R

5-9) $-4\frac{2}{3}$



10. $>$ 11. $>$

12. $-200; \frac{1}{200}$ 13. $-3\frac{3}{5}; \frac{5}{18}$ 14. $0.01; -100$ 15. $\frac{7}{2}; -\frac{2}{7}$

16. Identity Property of Multiplication
17. Distributive Property
18. Commutative Property of Addition
19. Associative Property of Multiplication
20. Commutative Property of Multiplication
21. Identity Property of Addition
22. Inverse Property of Addition
23. Inverse Property of Multiplication
24. Distributive Property

25. 10.3 26. 0.06 27. -25 28. 1.6

29. $\frac{1}{3}$ 30. 3 31. 3 32. -2

33. 1.5 34. 5 35. 38

PROBLEM SET 1-2

1. -30 2. 26 3. 368 4. -16
5. $10r + 5s$ 6. $2x^2 + x$ 7. $-0.5x$ 8. $10y + x - 4$

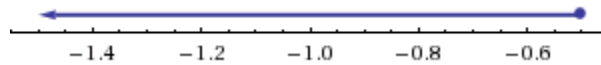
9. $-3a+15b$ 10. $-3x+4y-z$ 11. y 12. $3x+6y$
13. $6x+3y$ 14. $\frac{5x^2}{2}$ 15. $\frac{7y^2}{12}+\frac{2y}{15}$ 16. $2y^2-2x^2$

PROBLEM SET 1-3

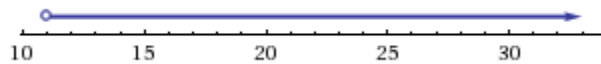
1. 8 2. -5 3. $-\frac{1}{9}$ 4. $\frac{3}{2}$
5. -6 6. 0 7. -6 8. $\frac{1}{2}$
9. 3 10. $\frac{3}{2}$
11. $g = \frac{2s}{t^2}$ 12. $r = \frac{I}{pt}$ 13. $h = \frac{V}{\pi r^2}$
14. $r_2 = \frac{Rr_1}{r_1 - R}$ 15. $v = \frac{h+5t^2}{t}$
16. $x = \frac{c}{c-b}, b \neq c$ 17. $x = 2(m+n)+2$ 18. $x = \frac{10c}{a}, a \neq 0$
19. $x = \frac{a-c}{m} + a, m \neq 0, x \neq a$

PROBLEM SET 1-4

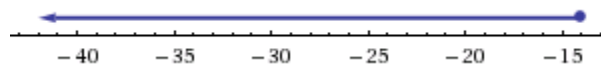
1. $x \leq -\frac{1}{2}$



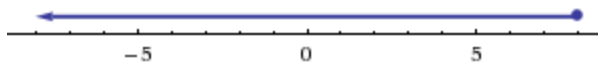
2. $a > 11$



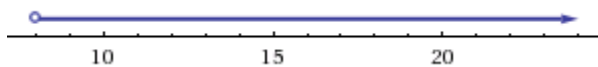
3. $y \leq -14$



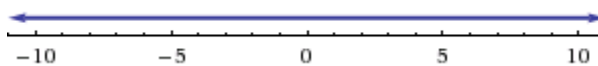
4. $x \leq 8$



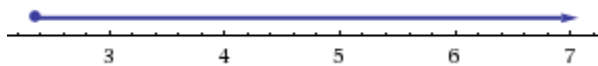
5. $n > 8$



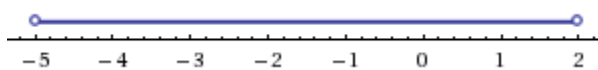
6. All real numbers



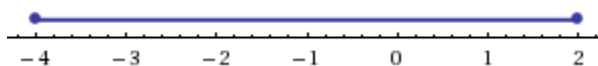
7. $x \geq \frac{99}{42}$



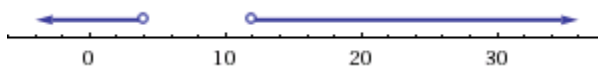
8. $-5 < x < 2$



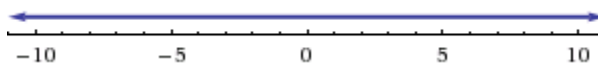
9. $-4 \leq x \leq 2$



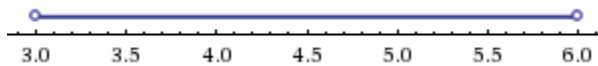
10. $x < 4$ or $x > 12$



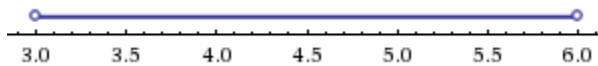
11. All real numbers



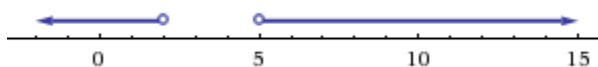
12. $3 < y < 6$



13. $-7 \leq z < 4\frac{2}{5}$



14. $b < 2$ or $b > 5$



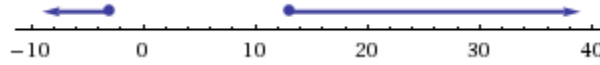
15. No solution

16. No solution

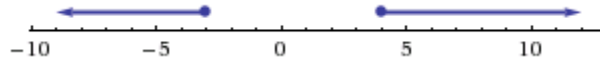
PROBLEM SET 1-5

1. $-6, 6$ 2. $-6, 12$ 3. No Solution 4. $-\frac{5}{3}, 3$
5. $-18, 10$ 6. $-7, 15$ 7. $-\frac{3}{2}$ 8. 1
9. $-1, \frac{3}{2}$ 10. $-\frac{3}{2}, -1$ 11. $-\frac{1}{3}$ 12. 2

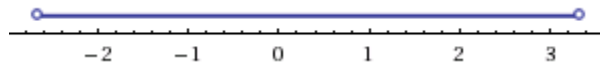
13. $x \leq -3$ or $x \geq 13$



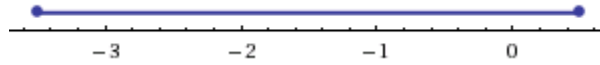
14. $x \leq -3$ or $x \geq 4$



15. $-\frac{8}{3} < x < \frac{10}{3}$

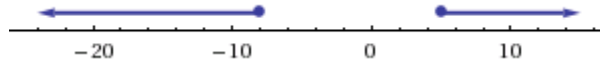


16. $-\frac{7}{2} \leq x \leq \frac{1}{2}$

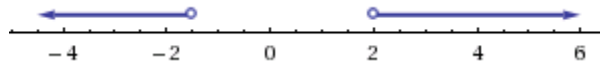


17. No Solution

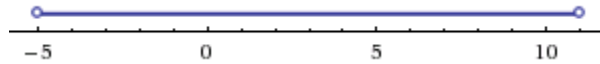
18. $x \leq -8$ or $x \geq 5$



19. $x < -\frac{3}{2}$ or $x > 2$



20. $-5 < x < 11$



21. $x < -32$ or $x > 22$

