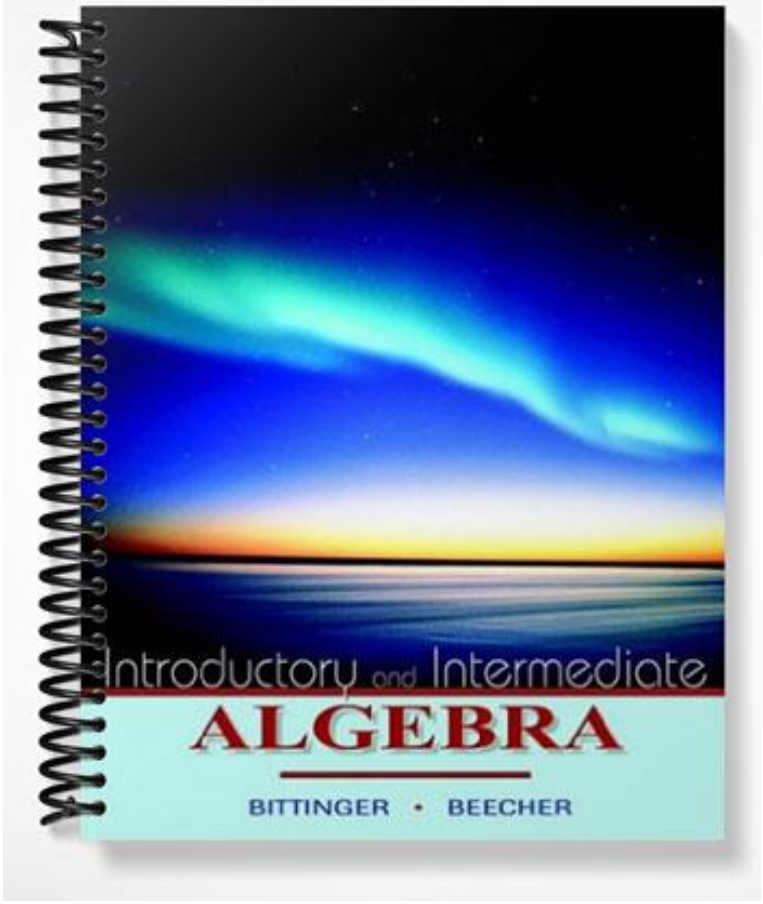
TEST BANK

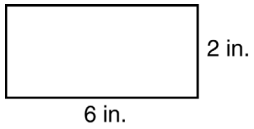

Introductory and Intermediate
ALGEBRA
BITTINGER • BEECHER

DIAGNOSTIC PRETEST **NAME**_____

CLASS_____**SCORE**_____**GRADE**_____

Chapter 1

1. Find the area.



2. Convert to fraction notation: 14%.

Compute and simplify.

3. $(-3.76)-(-4)$

4. $(-6)(-20)$

5. $-\frac{5}{12}\div\frac{4}{15}$

6. $480\div(-6)\div 2$

7. A small business made a profit of $284.06 on Tuesday. The next day, it had a loss of $59.78. Find the total profit or loss.

8. Remove parentheses and simplify: $2[12(a-6)-5(3-a)]$

9. Evaluate $\frac{2x+y}{3}$ for $x=-4$ and $y=2$.

10. Write an algebraic expression: The product of five and a number.

Chapter 2

Solve.

11. $6(x+5)=24(x-4)$

12. $\frac{5}{4}x+\frac{2}{9}=\frac{11}{9}$

Solve.

13. $-4y\geq 52$

14. $6-3x\geq 5x+12$

15. $A=\frac{a+b+c}{3}$, for b.

16. 12% of what number is 240?

ANSWERS

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____

ANSWERS

17. _____

18. _____

19. See graph.

20. See graph.

21. _____

22. _____

23. _____

24. _____

25. _____

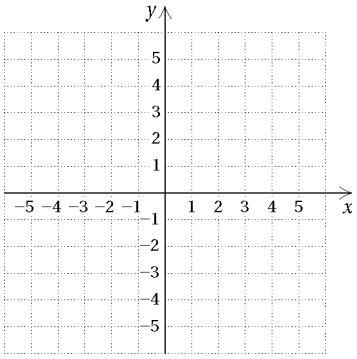
17. A 60-in. board is cut into two pieces. One board is four times as long as the other. How long are the pieces?

18. A ball rebounds 60% of the height of its fall. Find the rebound distance of a ball that is dropped from a height of 50 in.

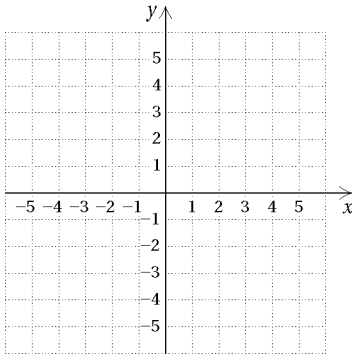
Chapter 3

Graph.

19. $y = -2x + 4$



20. $y = -4$



21. Find the slope of $y = -2$, if it exists.

22. In which quadrant is $(-5, 3)$ located?

23. Find the slope and the *y*-intercept of $4x - 3y = 9$.

24. Find an equation of the line containing the pair of points $(5, 2)$ and $(-3, 5)$.

25. Determine whether the graphs of the following equations are parallel, perpendicular or neither:
$6x - 2y = 9$,
$y = 10 + 3x$.