

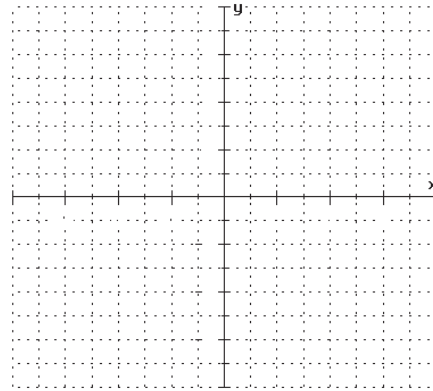
Name:
Instructor:

Date:
Section:

Chapter 3 Test Form A

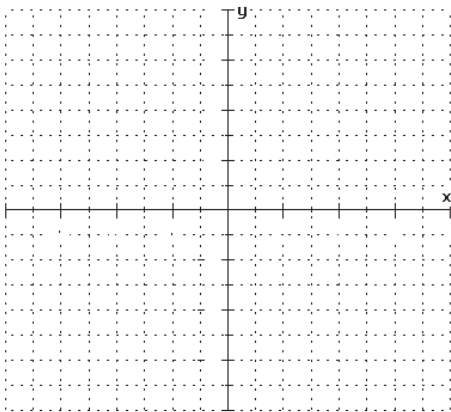
1. Graph the point and identify the quadrant that the point lies in. $(-1, 3)$

1. _____

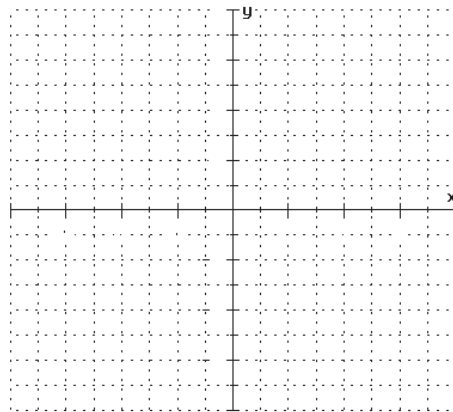


Graph each line.

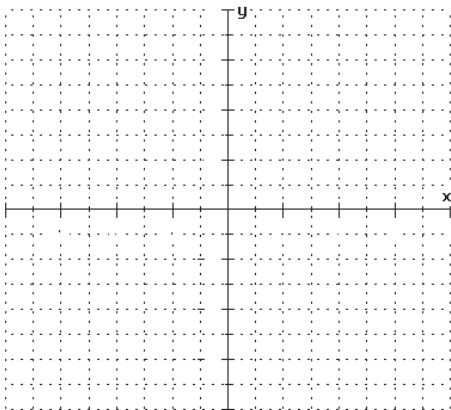
2. $y = 2x - 4$



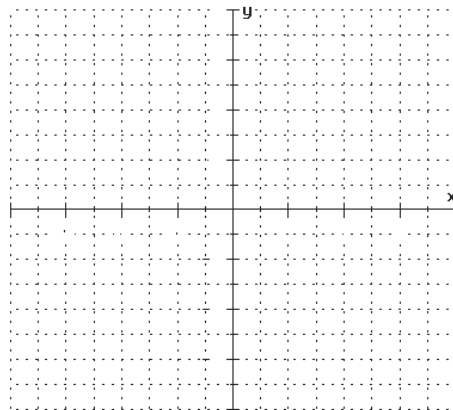
3. $x + 3y = 6$



4. $y = -2$



5. $y = -2x$



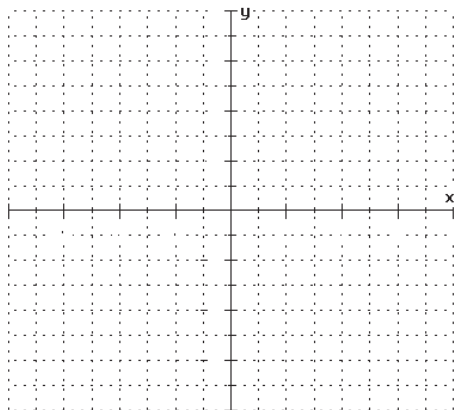
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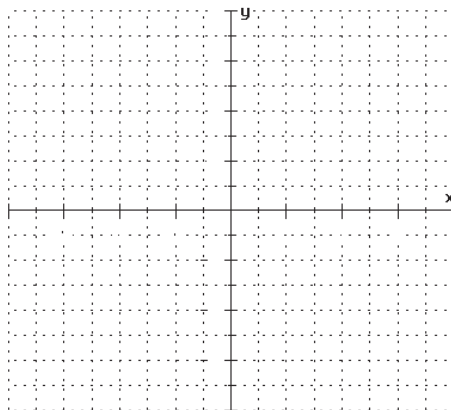
Chapter 3 Test Form A *cont'd*

Graph each function.

6. $f(x) = (x-2)^2 + 1$



7. $g(x) = |x-2|$



Find the equation of each line in standard form satisfying the given conditions.

- | | |
|--|-----------|
| 8. through $(-2, 4)$ and $(5, 0)$ | 8. _____ |
| 9. vertical, through $(-3, 5)$ | 9. _____ |
| 10. through $(1, 3)$, slope -7 | 10. _____ |
| 11. horizontal, through $(8, -2)$ | 11. _____ |
| 12. Find the slope of the line that passes through $(-3, 1)$ and $(2, -6)$. | 12. _____ |
| 13. Find the slope and the y-intercept of the line $6x - 2y = 7$. | 13. _____ |

Find the equation of the line in function notation that satisfies the conditions given.

- | | |
|---|-----------|
| 14. through $(2, -1)$ and $(5, 4)$ | 14. _____ |
| 15. parallel to $x + 4y = 2$, through $(-1, 3)$ | 15. _____ |
| 16. perpendicular to $3x - 2y = -1$, through $(2, -7)$ | 16. _____ |

Name:
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Chapter 3 Test Form A *cont'd*

17. Determine if these lines are parallel lines, perpendicular lines, or neither.

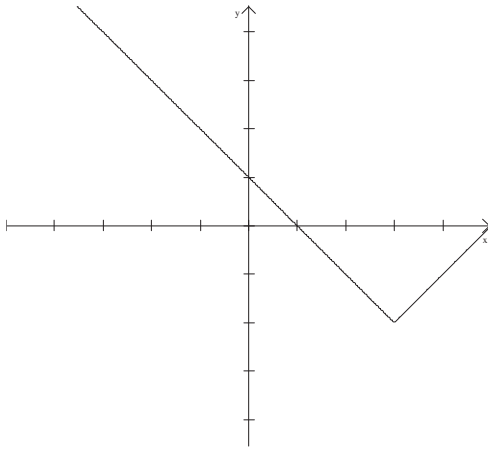
$L_1 : 5x - 2y = 6$

L_2 : passes through (4, -1) and (3, 2)

17. _____

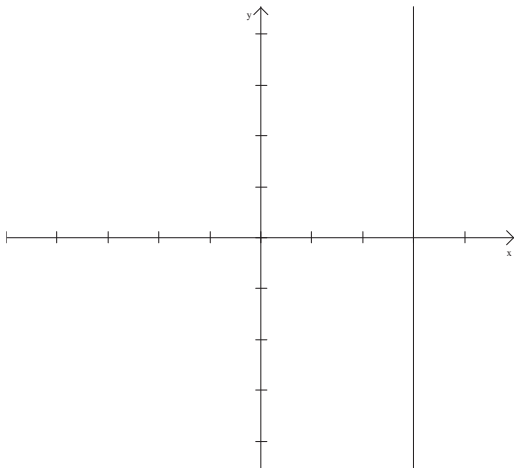
Find the domain and range of each function.

18.



18. _____

19.



19. _____

If $f(x) = |x - 3| - 2$, find the following.

20. $f(-2)$

20. _____

21. $f(3)$

21. _____

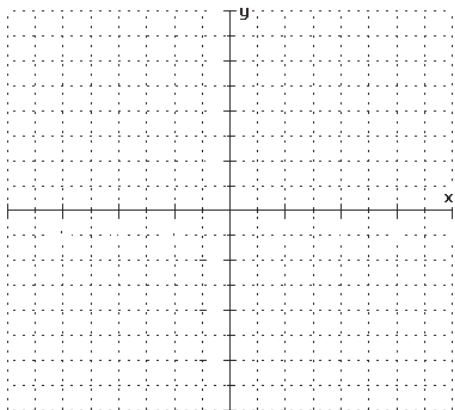
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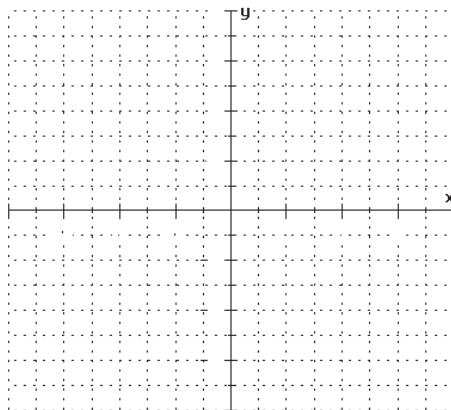
Chapter 3 Test Form A *cont'd*

Graph each inequality.

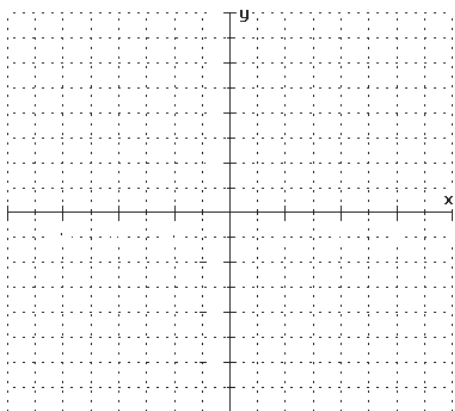
22. $x - y > 5$



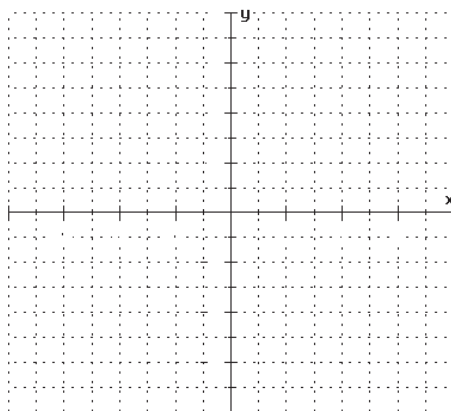
23. $x \leq 2$



24. The intersection of
 $x - 3y \leq 6$ and $x + y \leq 3$



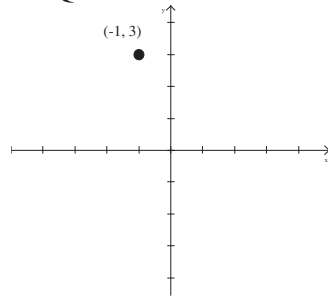
25. $f(x) \begin{cases} 2x; & x \leq 1 \\ x+1; & x > 1 \end{cases}$



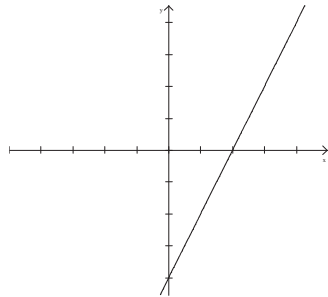
Chapter 3 Test Answers

Test 3 – A

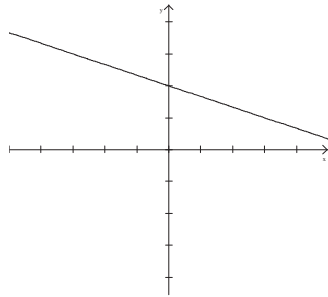
1. Q II



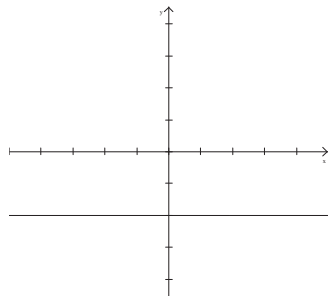
2.



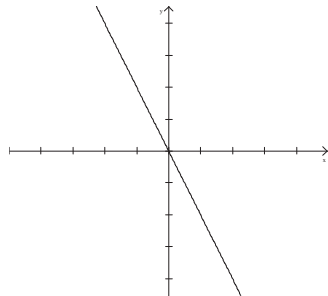
3.



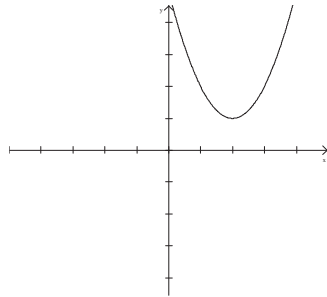
4.



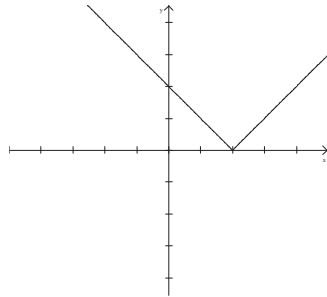
5.



6.



7.



8. $4x + 7y = 20$

9. $x = -3$

10. $7x + y = 10$

11. $y = -2$

12. $-\frac{7}{5}$

13. $m = 3; b = -\frac{7}{2}$

14. $f(x) = \frac{5}{3}x - \frac{13}{3}$

15. $f(x) = -\frac{1}{4}x + \frac{11}{4}$

16. $f(x) = -\frac{2}{3}x - \frac{17}{3}$

17. neither

18. Domain: $(-\infty, \infty)$

Range: $[-2, \infty)$

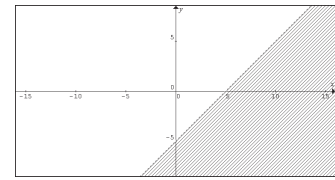
19. Domain: $[3]$

Range: $(-\infty, \infty)$

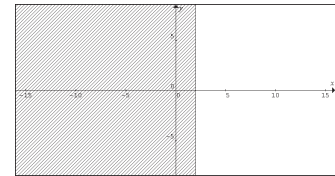
20. 3

21. -2

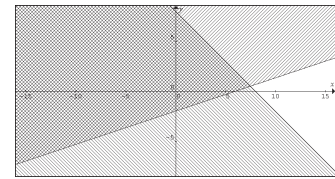
22.



23.



24.



25.

