

Name _____

6-2B Lesson Master**Questions on SPUR Objectives**
See Student Edition pages 446–449 for objectives.**VOCABULARY**

1. Define the
- absolute value*
- of a number geometrically.

2. Define the
- absolute value*
- of a number algebraically.

SKILLS Objective C

In 3–12, solve the equation.

3. $w^2 = 144$

4. $m^2 = 66$

5. $a^2 = 3.61$

6. $\frac{25}{81} = x^2$

7. $(x + 8)^2 = 0$

8. $(2r - 6)^2 = 0$

9. $m^2 = 20$

10. $(n - 2)^2 = 0$

11. $r^2 = 16$

12. $(2p - 4)^2 = 1$

SKILLS Objective D

In 13–20, solve the equation.

13. $|x + 9| = 33$

14. $|c - 5.2| = 3.1$

15. $42 = |3x|$

16. $|2b| + 4 = 10$

17. $|m| = 7$

18. $|b - 3| + 7 = 12$

19. $|2s - 7| - 3 = 4$

20. $|4r + 7| = -1$

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PROPERTIES Objective F

True or False In 21–26, determine whether the statement is true or false.

- 21. $-|x^2| < 0$ _____
- 22. For $m \neq 0$, $\sqrt{-m^2}$ is not a real number. _____
- 23. If $x > 0$, $|x| = -x$ _____
- 24. $|t| = |-t|$ _____
- 25. $\sqrt{x^2} = x$ _____
- 26. $\sqrt{-x^2} = |x|$ _____

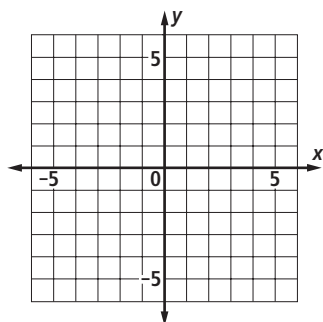
REPRESENTATIONS Objective K

In 27–30, a. graph $f(x)$ and $g(x)$ on the same axes. b. Use the graph to solve $f(x) = g(x)$ for x .

27. $f(x) = -2|x|$ and $g(x) = -2|-x|$

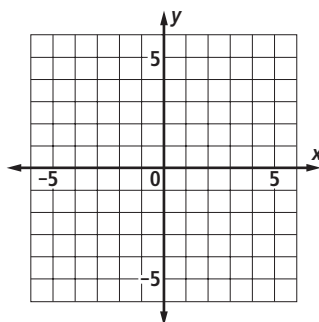
28. $f(x) = |2x|$ and $g(x) = |2x + 6|$

a.



b. _____

a.

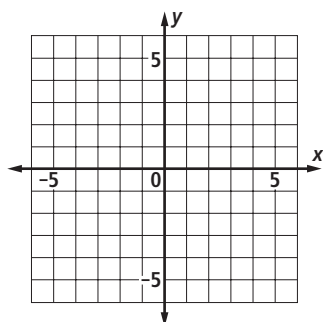


b. _____

29. $f(x) = |x + 3|$ and $g(x) = -|x + 3|$

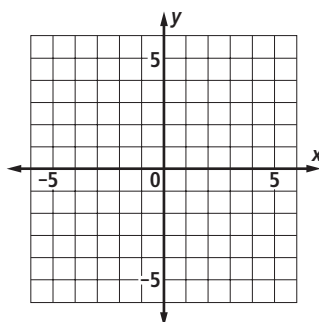
30. $f(x) = -|x| - 2$ and $g(x) = |x| - 5$

a.



b. _____

a.



b. _____