Name _____ Date _____ Class _____

LESSON 11-5

Practice A

Square-Root Functions

Find the domain of each square-root function.

1. $y = \sqrt{x - 7}$

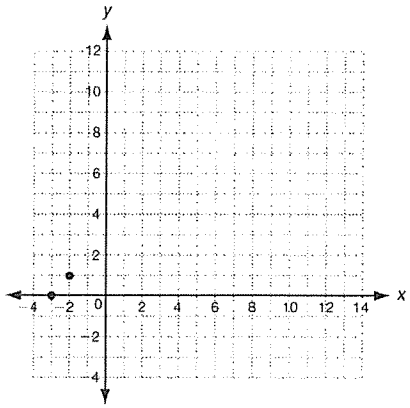
2. $y = \sqrt{4x - 2} + 3$

3. $y = \sqrt{x + 4}$

Complete each function table. Then, graph each square-root function.

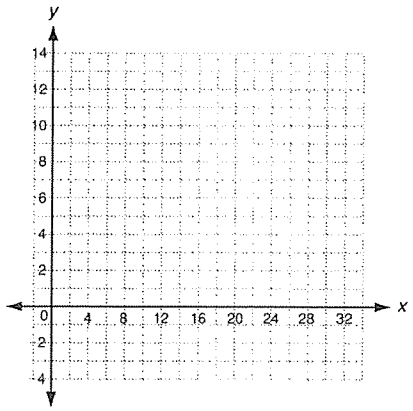
4. $f(x) = \sqrt{x + 3}$

x	$f(x)$
−3	$\sqrt{-3 + 3} = \sqrt{0} = 0$
−2	$\sqrt{-2 + 3} = \sqrt{1} = 1$
1	
6	
13	



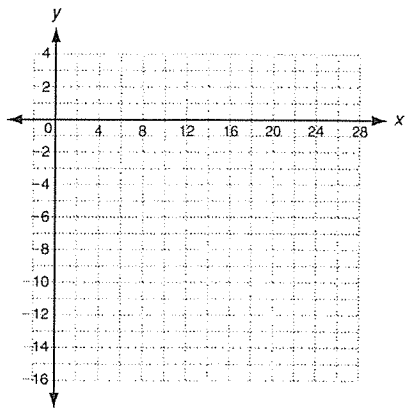
5. $f(x) = \sqrt{2x}$

x	$f(x)$



6. $f(x) = -2\sqrt{x - 1}$

x	$f(x)$



Name _____ Date _____ Class _____

LESSON 11-5

Practice B

Square-Root Functions

1. An apartment manager needs to order wallpaper border for the remodeled bathrooms. The function $y = 640\sqrt{x}$ gives the amount of border needed, in feet, if x is the square footage of each bathroom. Find the amount of border needed if each bathroom is 100 ft^2. _____

Find the domain of each square-root function.

2. $y = \sqrt{x + 6}$ _____

3. $y = \sqrt{-3x}$ _____

4. $y = \sqrt{2x + 8}$ _____

5. $y = \sqrt{\frac{2}{3}x - 6}$ _____

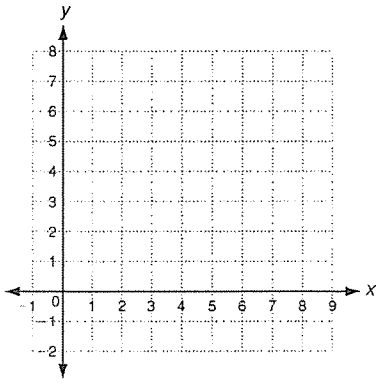
6. $y = -2\sqrt{10 - 5x}$ _____

7. $y = \sqrt{7(x - 3)}$ _____

Complete each function table. Then graph each square-root function.

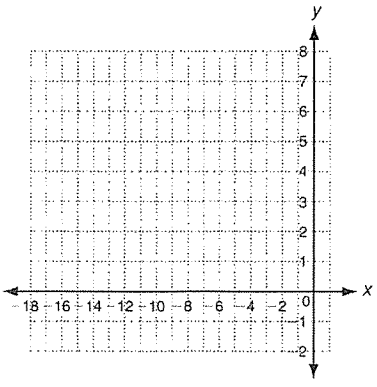
8. $f(x) = \sqrt{4x}$

x	$f(x)$
0	
$\frac{1}{4}$	
1	
4	
9	



9. $f(x) = \sqrt{-x} + 3$

x	$f(x)$
0	
−1	
−4	
−9	
−16	



10. $f(x) = \frac{1}{2}\sqrt{x - 2}$

x	$f(x)$