

1.7 EXERCISES

HOMWORK KEY

 = **WORKED-OUT SOLUTIONS**
on p. 000 for Exs. 3 and 17

 = **TAKS PRACTICE AND REASONING**
Exs. 13, 19, 20, 21, and 22


SKILL PRACTICE

- VOCABULARY** Copy and complete: Each point on the graph of a function corresponds to an ordered pair (x, y) where x is in the ? of the function and y is in the ? of the function.
- WRITING** Given the graph of a function, describe how to write a rule for the function.

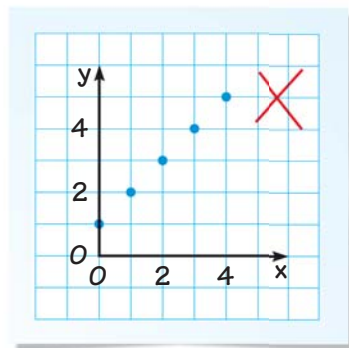
EXAMPLE 1

on p. 43
for Exs. 3–9

GRAPHING FUNCTIONS Graph the function.

-  $y = x + 3$; domain: 0, 1, 2, 3, 4, and 5
- $y = \frac{1}{2}x + 1$; domain: 0, 1, 2, 3, 4, and 5
- $y = 2x + 2$; domain: 0, 2, 5, 7, and 10
- $y = 3x - 1$; domain: 1, 2, 3, 4, and 5
- $y = x + 5$; domain: 0, 2, 4, 6, 8, and 10
- $y = 2.5x$; domain: 0, 1, 2, 3, and 4

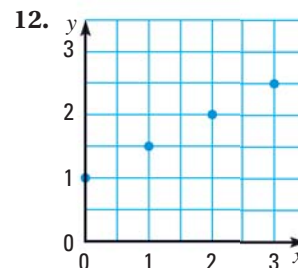
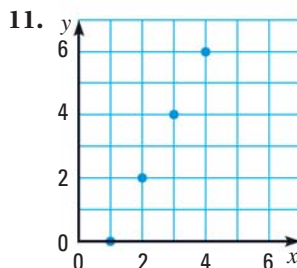
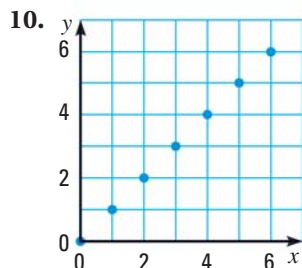
- ERROR ANALYSIS** Describe and correct the error in graphing the function $y = x - 1$ with domain 1, 2, 3, 4, and 5.



EXAMPLE 3

on p. 44
for Exs. 10–12

WRITING FUNCTION RULES Write a rule for the function represented by the graph. Identify the domain and the range of the function.



-  **TAKS REASONING** The graph of which function is shown?

- (A) $y = \frac{1}{2}x + \frac{1}{2}$ (B) $y = x + \frac{1}{2}$
(C) $y = \frac{3}{2}x + \frac{1}{2}$ (D) $y = 2x + \frac{1}{2}$

