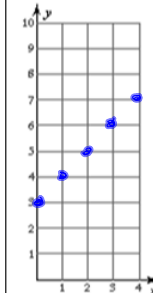


1.4 Practice Problems

Graph the function.

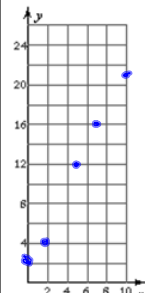
1) $y = x + 3$; domain: 0, 1, 2, 3, 4 and 5

x	0	1	2	3	4/5
y	3	4	5	6	7/8



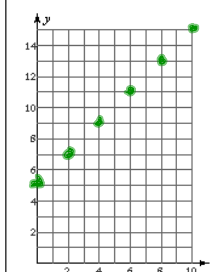
2) $y = 2x + 2$; domain: 0, 2, 5, 7 and 10

x	0	2	5	7	10
y	2	4	12	16	22

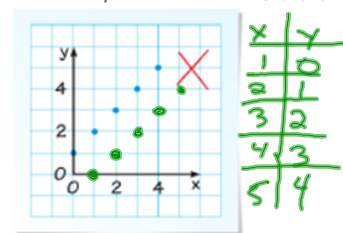


3) $y = x + 5$; domain: 0, 2, 4, 6, 8, 10

x	0	2	4	6	8/10
y	5	7	9	11	13/15



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



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

5) $y = x$
 $D = \{0, 1, 2, 3, 4, 5, 6\}$
 $R = \{0, 1, 2, 3, 4, 5, 6\}$

6) $y = 2x - 2$
 $D = \{1, 2, 3, 4\}$
 $R = \{0, 2, 4, 6\}$

7) $y = \frac{1}{2}x + 1$
 $D = \{0, 1, 2, 3\}$
 $R = \{1, 1.5, 2, 2.5\}$

8) MULTIPLE CHOICE: 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) $y = 2x + \frac{1}{2}$
 $D = \{0, 1, 2, 3, 4\}$
 $R = \{1, 2, 3, 4, 5, 6\}$

Skill Review

Plot the points:
 1) (1, 5) 2) (-1, 5)

Simplify:
 3) $\frac{3-9}{-12-(-3)}$
 $= \frac{-6}{-12+3}$
 $= \frac{-6}{-9} = \frac{2}{3}$

Simplify:
 4) $4(-1)^3 + 2(-4)$
 $4(-1) + -8$
 $-4 + -8$
 -12