

Independent Practice

Relations and Functions

A.15

Read and solve.

1. What is the domain of the set of ordered pairs:

$$\{ (-5, -4), (-4, 4), (2, 3), (4, 5) \}$$

- A. $\{-5, -4, 2, 4\}$
- B. $\{-4, 3, 4, 5\}$
- C. $\{-5, -4, 4, 5\}$
- D. $\{-5, 2, 3, 4\}$

2. What is the range of the function $f(x) = 5 - 8x$ when the domain is $\{-2, 2, 4\}$?

- A. $\{-27, -11\}$
- B. $\{-27, -11, 21\}$
- C. $\{-2, 2, 4\}$
- D. $\{1/8, 3/8, 7/8\}$

3. If $f(x) = (2/3)x - 6$, what is $f(12)$?

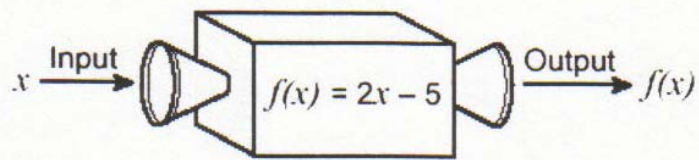
- A. 2
- B. 8
- C. 14
- D. 27

4. $(0, -3), (2, -2), (4, -1), (6, 0), \dots$

The ordered pairs above follow a pattern. If $(10, y)$ is in this pattern, what is the value of y ?

- A. 1
- B. 2
- C. 3
- D. 4

5.



Using the function machine in the diagram, what is the output when 12 is input?

- A 7
- B 8.5
- C 19
- D 29