NAME

Module 9   Using Functions
Lesson 2   Evaluating Functions

guided practice

Set 1

1. In the set of ordered pairs {(2, 4), (–1, 3), (–4, 0), (3, 6)} what output is associated with an input of 3?

Input: 3   Output: 6

2. In the set of ordered pairs {(2, 4), (–1, 3), (–4, 0), (3, 6)} what output is associated with an input of –1?

Input: –1   Output: 3

3. In the set of ordered pairs {(2, 4), (–1, 3), (–4, 0), (3, 6)} what input is associated with an output of 6?

Output: 6   Input: 3

4. In the set of ordered pairs {(2, 4), (–1, 3), (–4, 0), (3, 6)} what input is associated with an output of 0?

Output: 0   Input: –4

Set 2

1. Evaluate $g(–1)$ if $g(x) = \sqrt{x + 10} - 3x$.

$g(–1) = 6$

2. Evaluate $r(4)$ if $r(z) = z^2 - 2z + 1$.
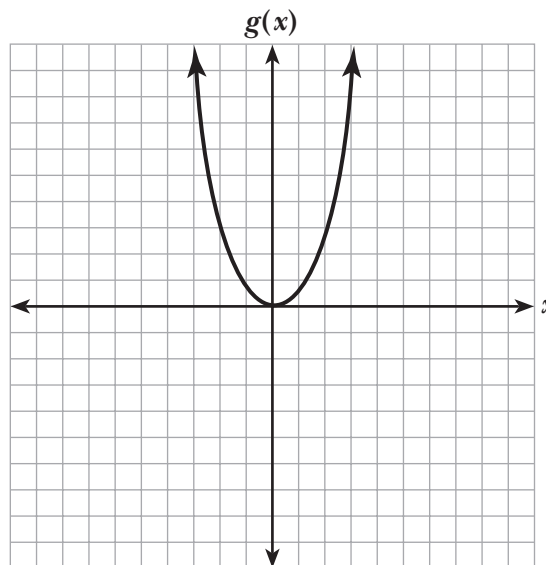
$r(4) = 9$

3. Evaluate $g(3)$ if $g(x) = –15$.

$g(3) = –15$

4. Evaluate $h(–5)$ if $h(x) = \dfrac{3}{x - 1}$.

$h(–5) = \dfrac{3}{–6} = -\dfrac{1}{2}$
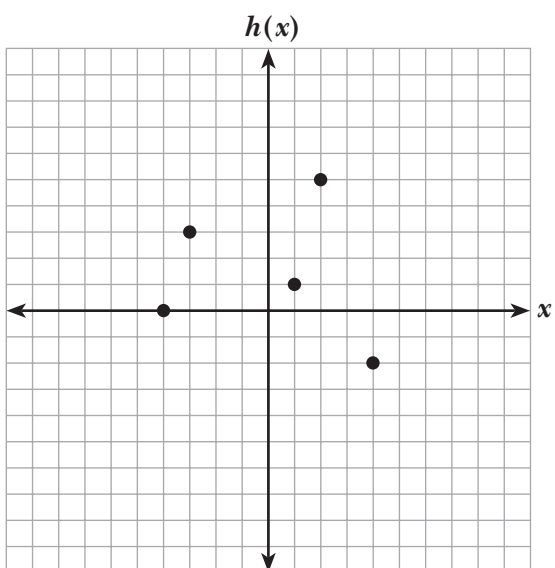
Set 3

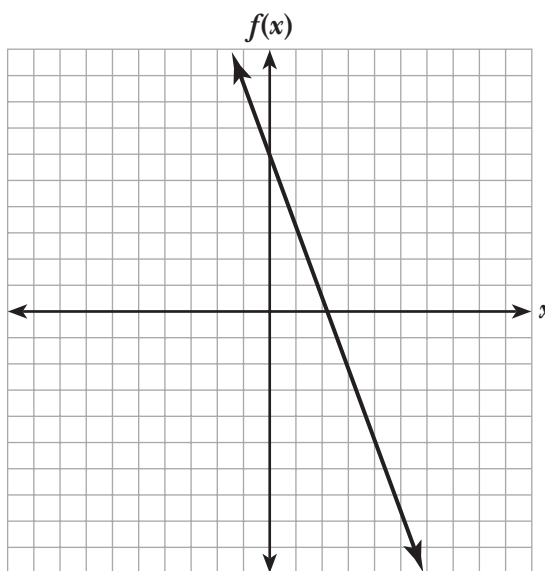**1.** Use the graph of $g(x)$ to find $g(–1)$.

$g(–1) = 1$

2. Use the graph of $h(x)$ to find $h(2)$.

$h(x)$

$h(2) = 5$

3. Use the graph of $f(x)$ to find $f(1)$. Then write the equation of the line using function notation.

$f(x)$

$f(1) = 3, f(x) = -3x + 6$

monotype composition
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