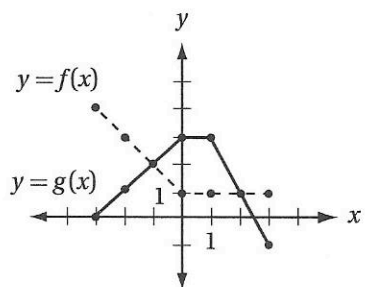


# Exercise Set 1 (No Calculator)

Questions 12–19 are based on the graph below.



**12**

What is the value of  $g(-1)$ ?

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**13**

What is the value of  $g(f(3))$ ?

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**14**

What is the value of  $f(g(3))$ ?

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**15**

If  $g(f(x)) = -1$ , what is the value of  $x + 10$ ?

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**16**

If  $f(k) + g(k) = 0$ , what is the value of  $k$ ?

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**17**

If  $f(a) = g(a)$ , where  $a < 0$ , and  $f(b) = g(b)$ , where  $b > 0$ , what is the value of  $a + b$ ?

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**18**

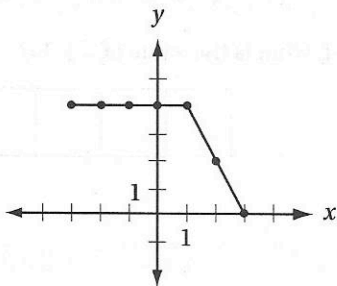
Let  $h(x) = f(x) \times g(x)$ . What is the maximum value of  $h(x)$  if  $-3 \leq x \leq 3$ ?

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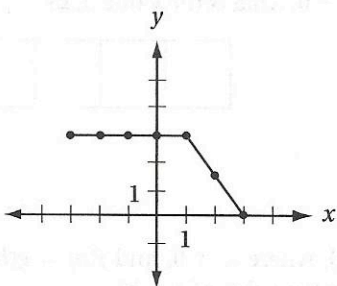
19

Which of the following graphs represents the function  $y = f(x) + g(x)$ ?

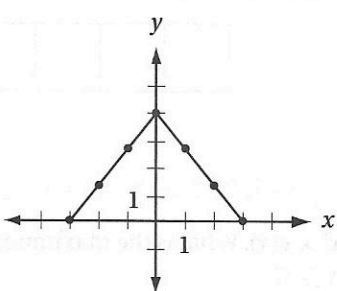
A)



B)



C)



D)

