



Use this space for  
computations.

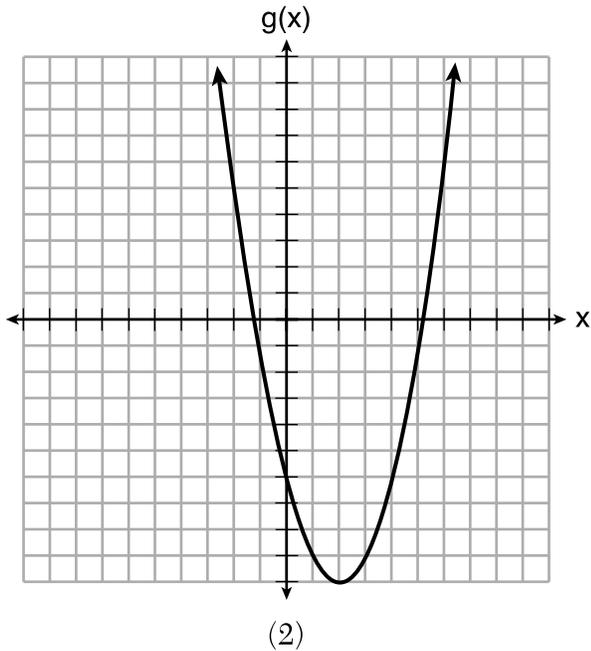
13 Which of the quadratic functions below has the *smallest* minimum value?

$$h(x) = x^2 + 2x - 6$$

(1)

$$k(x) = (x + 5)(x + 2)$$

(3)



x	f(x)
-1	-2
0	-5
1	-6
2	-5
3	-2

(4)

14 Which situation is *not* a linear function?

- (1) A gym charges a membership fee of \$10.00 down and \$10.00 per month.
- (2) A cab company charges \$2.50 initially and \$3.00 per mile.
- (3) A restaurant employee earns \$12.50 per hour.
- (4) A \$12,000 car depreciates 15% per year.

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**15** The Utica Boilermaker is a 15-kilometer road race. Sara is signed up to run this race and has done the following training runs:

- I. 10 miles
- II. 44,880 feet
- III. 15,560 yards

Which run(s) are at least 15 kilometers?

- (1) I, only
- (2) II, only
- (3) I and III
- (4) II and III

**16** If  $f(x) = x^2 + 2$ , which interval describes the range of this function?

- (1)  $(-\infty, \infty)$
- (2)  $[0, \infty)$
- (3)  $[2, \infty)$
- (4)  $(-\infty, 2]$

**17** The amount Mike gets paid weekly can be represented by the expression  $2.50a + 290$ , where  $a$  is the number of cell phone accessories he sells that week. What is the constant term in this expression and what does it represent?

- (1)  $2.50a$ , the amount he is guaranteed to be paid each week
- (2)  $2.50a$ , the amount he earns when he sells  $a$  accessories
- (3) 290, the amount he is guaranteed to be paid each week
- (4) 290, the amount he earns when he sells  $a$  accessories