#### SCORE

## 1 Standardized Test Practice

#### Part 1: Multiple Choice

Instructions: Fill in the appropriate circle for the best answer.

 The cost of renting a car is \$125 a day. Which function represents the situation where d is the number of days?

$$A c(d) = 125d + \frac{125}{24}d$$

$$\mathbf{B} c(d) = 125[d + 1]$$

$$\mathbf{C} \, c(d) = \left\{ \begin{array}{cc} 125d \, \mathrm{if} \, [\![d]\!] \, = \, d \\ 125[\![d]\!] \, + \, 1] \, \mathrm{if} \, [\![d]\!] \, < \, d \end{array} \right.$$

$$\mathbf{D}_{C(d)} = \begin{cases} 125d \text{ if } [d] = d \\ 125[d - 1] \text{ if } [d] < d \end{cases}$$

2. Given  $f(x) = -x^2 + 2x$ , what is f(-3)?

$$A = 1.5$$

$$\mathbf{B} = 10$$

3. What is the zero of  $f(x) = \frac{3}{4}x - 12$ ?

$$A = 1.6$$

$$B - 12$$

4. The graph of  $f(x) = x^3 - x$  is symmetric with respect to which of the following?

A the x-axis

**D** the line 
$$y = x$$

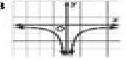
- 5. Given the parent function p(x) = [x], what transformations occur in the graph of p(x) = 2 [x 3] + 4?
  - A vertical expansion, left 3 units, up 4 units
  - B vertical compression, down 3 units, left 4 units
  - C vertical expansion, right 3 units, up 4 units
  - D vertical compression, down 3 units, right 4 units
- **6.** Choose the statement that is true for the graph of  $f(x) = x^3 12x$ .
  - A f(x) increases for  $x \ge -2$ .

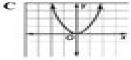
 $C_f(x)$  increases for  $x \ge 2$ .

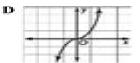
**B** f(x) decreases for  $x \ge -2$ .

- $\mathbf{D}f(x)$  decreases for  $x \le 2$ .
- 7. Which graph represents a function that has an inverse that is also a function?









## **Standardized Test Practice 10th Grade**

**Sabine Zange** 

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