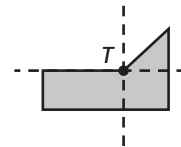


PRACTICING FOR STANDARDIZED TESTS

Practice Set 1

Solve each problem. Then record the letter that corresponds to the correct answer.

- If N is an odd integer, which of the following numbers is also an odd integer?
 (a) $N \times N$ (b) $N + N$ (c) $3N - 1$ (d) $N - 1$ (e) $N + 5$
- A T-shirt sells for \$18 in a retail store. If this price is 120% of the wholesale price, what is the wholesale price?
 (a) \$14.40 (b) \$15.00 (c) \$16.00 (d) \$16.20 (e) \$21.60
- Which of the following figures is the result of a half-turn about point T of the figure at the right?

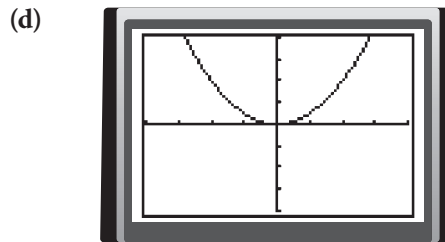
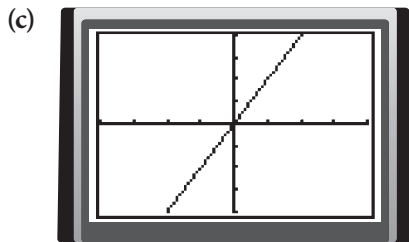
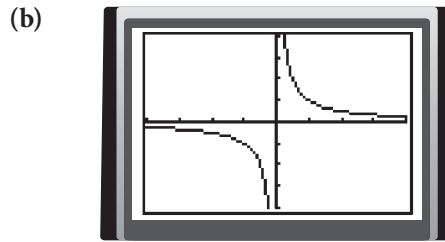
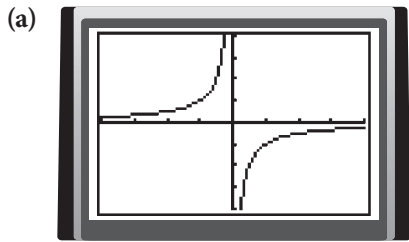


- (a)
- (b)
- (c)
- (d)
- (e)

- The population of Country X is growing at 3% per year. Which of the following does not correctly indicate the change in population from one year to the next.
 (a) $NEXT = 1.03 \cdot NOW$ (b) $NEXT = NOW + 0.03 \cdot NOW$
 (c) $NEXT = 0.03 \cdot NOW$ (d) $NEXT = NOW + 0.05 \cdot NOW - 0.02 \cdot NOW$
- In a quadrilateral, two of the angles have a measure of 90° each. The measure of a third angle is 100° . What is the measure of the remaining angle?
 (a) 70° (b) 80° (c) 170° (d) 190° (e) 280°
- If $a > 0$ and $b < 0$, which of the following must be negative?
 I. ab II. $\frac{a}{b}$ III. $a - b$
 (a) I only (b) II only (c) III only (d) I and II (e) All of them

UNIT 1 Patterns of Change

7. Which graph matches the rule $y = \frac{a}{x}$, with $a > 0$?

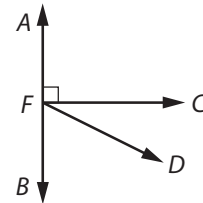


8. Jane bought some peppermint patties. She gave half of them to her brother and then a third of those left to her sister. Now she has 6. How many peppermint patties did she buy?

- (a) 18 (b) 24 (c) 30 (d) 36 (e) 42

9. \overline{AB} , \overline{CF} , and \overline{DF} intersect at point F and the measure of $\angle AFC$ is 90° . The measure of $\angle BFD$ is twice as much as the measure of $\angle CFD$. What is the measure of $\angle CFD$?

- (a) 15° (b) 22.5°
 (c) 30° (d) 45°
 (e) 60°



10. Which fraction has the greatest value?

- (a) $\frac{5}{17}$ (b) $\frac{5}{15}$ (c) $\frac{5}{13}$ (d) $\frac{5}{11}$ (e) $\frac{5}{9}$

TEST-TAKING TIP

Test general properties of numbers by using specific numbers.

Example Look back at Item 1. To use this strategy, choose a specific odd number such as 3 to substitute for N in each of the listed expressions.

For choice (a): $3 \times 3 = 9 \cdot 9$ is an odd integer.

For choice (b): $3 + 3 = 6 \cdot 6$ is not an odd integer.

For choice (c): $3(3) - 1 = 8 \cdot 8$ is not an odd integer.

Explain why choices (d) and (e) are not correct choices. So, the answer is (a).

Find, if possible, another test item in the practice set for which this strategy might be helpful. Try it.