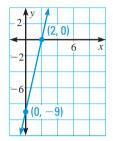
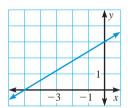
Chapter Standardized Test

- TEST-TAKING STRATEGY Read all of the answer choices before deciding which is the correct one.
- 1. MULTIPLE CHOICE What is the equation of the line shown?



- 9x 2y = -18
- **B** -9x 2y = 18
- **(c)** 9x + 2y = 18
- 9x + 2y = -18
- (E) -9x + 2y = -18
- **2. MULTIPLE CHOICE** What is the *y*-intercept of the line $-4x - \frac{1}{2}y = 10$?
 - \bigcirc -20 \bigcirc -4
 - **©** $-\frac{5}{2}$ **D** 5
 - **(E)** 20
- **3. MULTIPLE CHOICE** Write the equation 3x - 4y = 20 in slope-intercept form.
 - $y = -\frac{3}{4}x 5$
 - **B** $y = -\frac{3}{4}x + 5$
 - **©** $y = \frac{3}{4}x 5$
 - **D** $y = \frac{3}{4}x + 5$
 - **(E)** y = 20 3x
- **4. MULTIPLE CHOICE** Find the slope of the line passing through the points (1, 2) and (2, 1).
 - \bigcirc 1
- **B** 3
- **©** 2 **□** −1
- \bigcirc -2

5. MULTIPLE CHOICE What is the slope of the line shown?



- **(A)** -5 **(B)** $-\frac{3}{5}$
- **(E)** 3
- **6. MULTIPLE CHOICE** What is the slope of the graph of the equation 5x - y = -2?
 - \bigcirc -5
- **B**) 5
- **(C)** 1
- \bigcirc -2
- **(E)** 2
- **7. MULTIPLE CHOICE** Which point does *not* lie on the graph of x = -12?
 - \bigcirc (-12, 0)
 - **B**) (-12, -12)
 - \bigcirc (-12, 1)
 - \bigcirc (-1, -12)
 - (-12, 12)
- **8. MULTIPLE CHOICE** What is the x-intercept of -13x - y = -65?
 - \bigcirc -65
 - **B** -5
 - \bigcirc 0
- **(D)** 5
- **E**) 65
- **9. MULTIPLE CHOICE** Find the value of $f(x) = -x^2 - 6x - 7$ when x = -2.
 - **A** -23 **B** -15
- - **©** 1
- **(D)** 7
- **(E)** 9

QUANTITATIVE COMPARISON In Exercises 10–12, choose the statement below that is true about the given numbers.

- A The number in column A is greater.
- **B** The number in column B is greater.
- **©** The two numbers are equal.
- **(D)** The relationship cannot be determined from the given information.

	Column A	Column B
10.	The slope of the line through $(4, -3)$ and $(-12, -3)$	0
11.	The slope of the line through $(4.5, 6)$ and $(-7, 4)$	The slope of the line through $(-6, 4.5)$ and $(4, -7)$
12.	The slope of the line through $(3.5, y)$ and $(6.8, 4)$	The slope of the line through $(3.5, q)$ and $(6.8, 4)$

13. MULTI-STEP PROBLEM An Internet provider offers three different levels of monthly service.

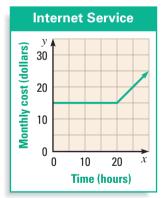
Standard: \$10 for the first 10 hours and \$1 for each additional hour.

Upgrade: \$15 for the first 20 hours and \$1 for each additional hour.

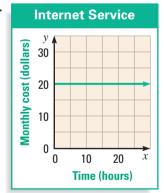
Unlimited: \$20 per month with no hourly charge.

a. Tell whether each graph represents Standard, Upgrade, or Unlimited service. Explain your reasoning.

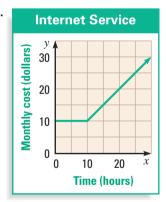
I.



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III.



- **b.** Write an equation for the total cost *T* per month for Upgrade service as a function of the number of additional hours used *b*.
- **c.** If you use the Internet 13 hours per month, which service will cost the least? Explain.
- **d.** If you use the Internet 24 hours per month, which service will cost the least? Explain.
- **e.** The equation C = 10 + a gives the total cost C per month for Standard service as a function of the number of additional hours used a. Explain how this model is different from the one you labeled Standard in part (a).