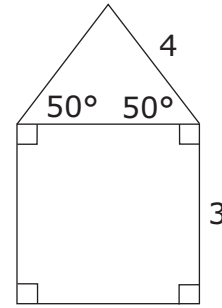
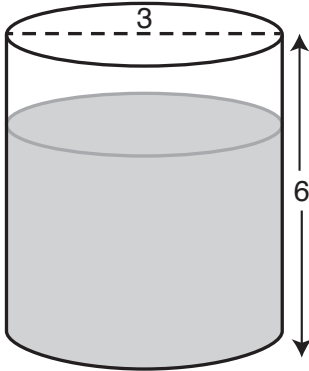


Geometry Drill

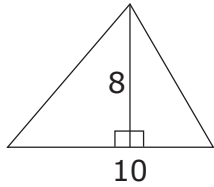
You can check your answers in Part VIII: Answer Key to Drills.



- The cylindrical glass above is filled $\frac{3}{4}$ with water. What volume of water is in the glass, rounded to the nearest unit?
 - 170
 - 127
 - 42
 - 32
- The radius of a circular traffic island is 7 feet. What is the approximate area of the traffic island?
 - 154
 - 148
 - 21
 - 15
- The figure above shows a square attached to a triangle. If the triangle is isosceles, what is the perimeter of the entire figure?
 - 12
 - 17
 - 20
 - 34
- A three-sided figure has sides in a ratio of $2 : 2 : 1$. What type of figure is this?
 - an equilateral triangle
 - a square
 - an isosceles triangle
 - Not enough information is given.
- If a cube has a volume of 27, which of the following is the length of one side of the cube?
 - 3
 - 9
 - 81
 - 144
- An isosceles triangle has one internal angle of 45° . What is the sum of the other two interior angles?
 - 180 degrees
 - 135 degrees
 - 90 degrees
 - 45 degrees

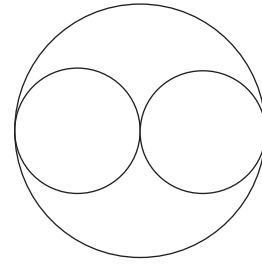
7. A rectangular flower garden has an area of 168 square feet. If the width of the garden is 12 feet, then what is the length of the garden?

- A. 23
- B. 20
- C. 15
- D. 14



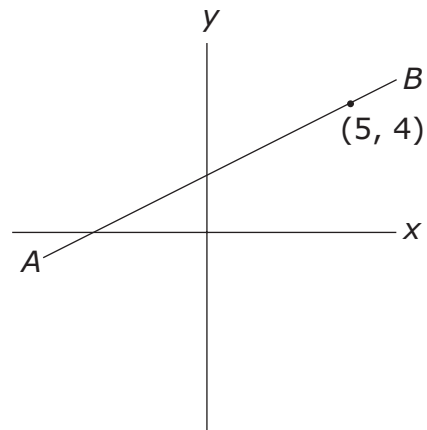
8. The triangle above has a base of 10 and a height of 8. Which of the following expressions gives the area of the triangle?

- A. $\frac{1}{2}(10)(8)$
- B. $2(10 + 8)$
- C. $\frac{1}{2}(10 + 8)$
- D. $\frac{1}{2}(10 - 8)$



9. Two circles with identical radii are inscribed inside a third circle, as shown above. If the diameter of the large circle is 20, what is the radius of one of the small circles?

- A. 40
- B. 20
- C. 10
- D. 5

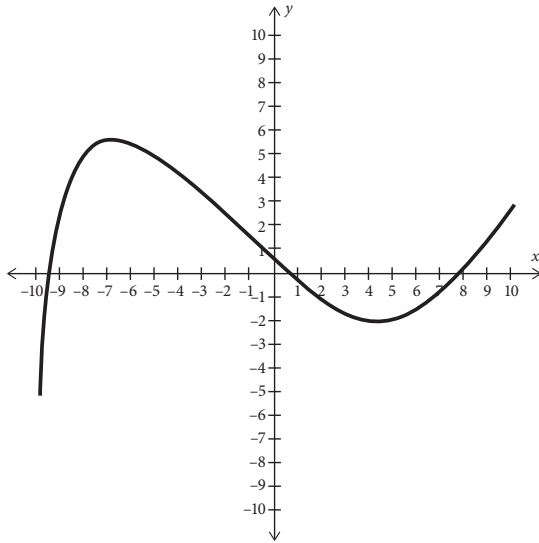


10. Point (5, 4) is on line AB as shown. Which of the following represents the slope of line AB ?

- A. $\frac{4}{5}$
- B. $\frac{5}{4}$
- C. $\frac{4 \pm 5}{5 - 4}$
- D. Not enough information is given.

11. Which of the following represents the equation of a line that goes through the points (1, 2) and (-2, 8)?

- A. $y = -2x - 4$
- B. $y = -2x + 4$
- C. $y = 2x + 4$
- D. $y = 2x - 4$



12. Which of the following intervals on the above graph is positive?

- A. $-9.5 < x < 1$ and $x > 8$
- B. $x < -9.5$ and $1 < x < 8$
- C. $x < -6.5$ and $x > 4$
- D. $-6.5 < x < 4$

13. A regular hexagon has an area of $24\sqrt{3}$.

If the area of a regular hexagon can be computed using the formula $A = \frac{3\sqrt{3}}{2}s^2$, where s is the side of the hexagon, what is the perimeter of the hexagon?

- A. 2
- B. 4
- C. 16
- D. 24