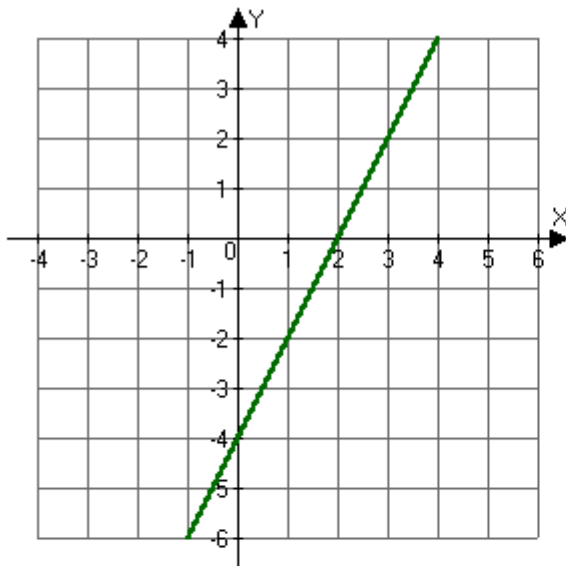




21. The relationship between x and y is represented by the following graph. What is the value of x when y is -20 ?



- A. -8
- B. -4
- C. 8
- D. 24

22. Kayla rides the first half of a bike race in two hours. Her partner Jaran completes the return trip in 3 hours, at a rate 5 miles per hour less than Kayla. How fast was Kayla traveling?

- A. 10 mph
- B. 15 mph
- C. 20 mph
- D. 25 mph

23. What is the perimeter of an equilateral triangle with the endpoints of one side located at points (4, -6) and (3, 2)?

- A. $\sqrt{65}$
- B. $3\sqrt{65}$
- C. $3 + \sqrt{65}$
- D. $\sqrt{17}$

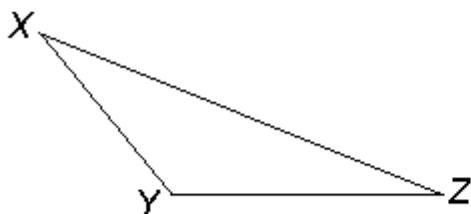
24. A rectangular patio has an area of 1350 square feet. The width of the patio is 30 feet. Determine the patio's perimeter.

- A. 45 feet
- B. 50 feet
- C. 150 feet
- D. 1380 feet

25. A large aquarium has a volume of 33,000 cubic inches and measures 30 inches wide by 50 inches long. How deep is the aquarium?

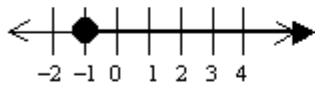
- A. 22 in.
- B. 30 in.
- C. 80 in.
- D. 31,500 in.

26. In the figure below, the measure of angle Y is 122° and the measure of angle Z is 24° . What is the measure of angle X?



- A. 24°
- B. 34°
- C. 80°
- D. 98°

27. Choose the equation or inequality that represents the graph.



- A. $x \geq -1$
- B. $x \leq -1$
- C. $x > -1$
- D. $x = -1$

28. A concrete mason is writing up a job estimate for a customer. The customer wants a driveway poured that will be 60 feet long, 16 feet wide, and 4 inches thick. Concrete weighs 110 pounds per cubic foot. How many cubic yards of concrete will be needed for the driveway? (1 cubic yard = 27 cubic feet)

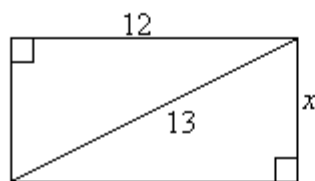
- A. 11.85 cubic yards
- B. 142.22 cubic yards
- C. 280 cubic yards
- D. 320 cubic yards

29. A 52-foot building casts a shadow that is 48 feet long. At the same time, the shadow cast by a nearby statue is 28 feet long. About how tall is the statue?

- A. 25.85 feet
- B. 26 feet
- C. 30.33 feet
- D. 89.14 feet

30. Find the width of the rectangle shown.

- A. 5
- B. 17.69
- C. 25
- D. 313



Answer Key for problems 21-30

21	A
22	B
23	B
24	C
25	A
26	B
27	A
28	A
29	C
30	A