

SAT2-MATHEMATICS^{Q&As}

SAT Section 2: Mathematics

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QUESTION 1

Line AC is a diagonal of square ABCD. What is the sine of angle ACB?

A. $\frac{1}{2}$

B. $\sqrt{2}$

C. $\frac{\sqrt{2}}{2}$

D. $\frac{\sqrt{3}}{2}$

E. cannot be determined

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: C

A square has four right (90-degree) angles. The diagonals of a square bisect its angles. Diagonal AC bisects C, forming two 45-degree angles, angle ACB and angle ACD. The sine of 45 degrees is equal to $\frac{2}{2}$

QUESTION 2

SIMULATION If

$z \frac{2}{a} = 9$, then $a = 3$ when $z = ?$

A. 27

Correct Answer: A

$$a: z^{\frac{2}{3}}$$

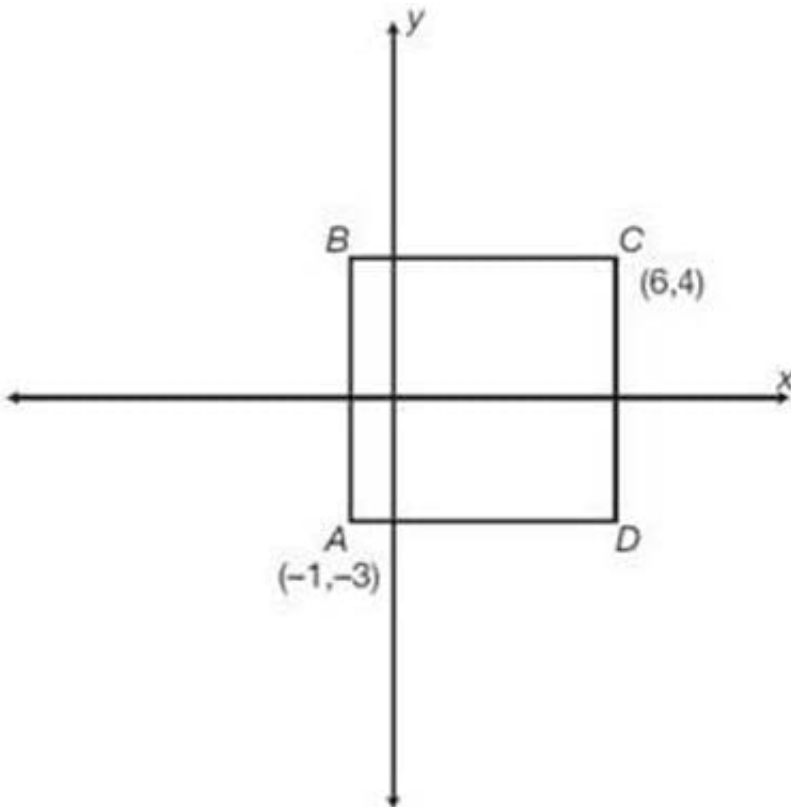
Substitute 3 for = 9.

$$\frac{2}{3}: z^{\frac{23}{32}}$$

To solve for z, raise both sides of the equation to the power

$$=9^{\frac{3}{2}}, z = \sqrt{9^3} = 3^3 = 27$$

QUESTION 3



In the graph above, ABCD is a square. What are the coordinates of point B?

A. (-1, -4)

- B. (-1,4)
- C. (-1,6)
- D. (-3,1)
- E. (-3,4)

Correct Answer: B

Explanation:

Point B is the same distance from the y-axis as point A, so the x-coordinate of point B is the same as the x-coordinate of point A: -1. Point B is the same distance from the x-axis as point C, so the y-coordinate of point B is the same as the y-coordinate of point C: 4. The coordinates of point B are (-1,4).

QUESTION 4

SIMULATION

If point A is at (-1, 2) and point B is at (11, -7), what is length of line AB?

- A. 15

Correct Answer: A

Use the distance formula to find the distance

from (-1,2) to (11,-7) :

$$\begin{aligned} \text{Distance} &= \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} \\ &= \sqrt{(11 - (-1))^2 + ((-7) - 2)^2} \end{aligned}$$

Distance

$$\text{Distance} = \sqrt{(12)^2 + (-9)^2}$$

$$\text{Distance} = \sqrt{144 + 81}$$

$$\text{Distance} = \sqrt{225}$$

$$\text{Distance} = 15 \text{ units}$$

QUESTION 5

SIMULATION

The length of a room is three more than twice the width of the room. The perimeter of the room is 66 feet.

What is the length of the room?

A. 23

Correct Answer: A

If x is the width of the room, then $3 + 2x$ is the length of the room. The perimeter is equal to $x + x + (3 + 2x) + (3 + 2x) = 66$; $6x + 6 = 66$; $6x = 60$; $x = 10$. The length of the room is equal to $2x + 3$, $2(10) + 3 = 23$ feet.

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