ASVAB-SECTION-6Q&As

ASVAB Section Six : Mathematics Knowledge

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QUESTION 1

Solve the following equation for 7:

ay - bx = 2

A. bx + 2/a

B. 2 + bx - a

C. 2/a - bx

D. 2/a - bx

Correct Answer: A

Explanation: The given equation ay - bx=2 is to be solved for y. Isolate the y-termon one side of the equation by adding bx to both sides. ay - bx + bx = 2 + bx ay = 2 + bx y is multiplied by a. To obtain y alone, undo the multiplication by dividing both sides of the equation by a ay/a = 2 + bx/a y = 2 + bx/a

QUESTION 2

The base of a cylindrical can is a circle whose diameter is 2 inches. Its height is 7 inches.

How many cubic inches are there in the volume of the can? Use 22/7 for the value of ?.

A. 124/7

B. 22

C. 44

D. 88

Correct Answer: B

Explanation:

The volume of a cylinder is equal to the product of its height and the area of its base. The base is a circle.

The area of a circle is ?r2, where ? = 22/7 and r is the radius. Since the diameter is 2 inches, the radius

(which is one-half the diameter) is 1 inch.

Area of circular base = 22/7 x 1/1 x 1/1 = 22/7

The height is 7 inches.

22/7 x 7/1 = 22 cubic inches

QUESTION 3

An architect designs two walls of a museum to meet at an angle of 120 degrees.

What is an angle of this size called?

A. acute

B. obtuse

C. right

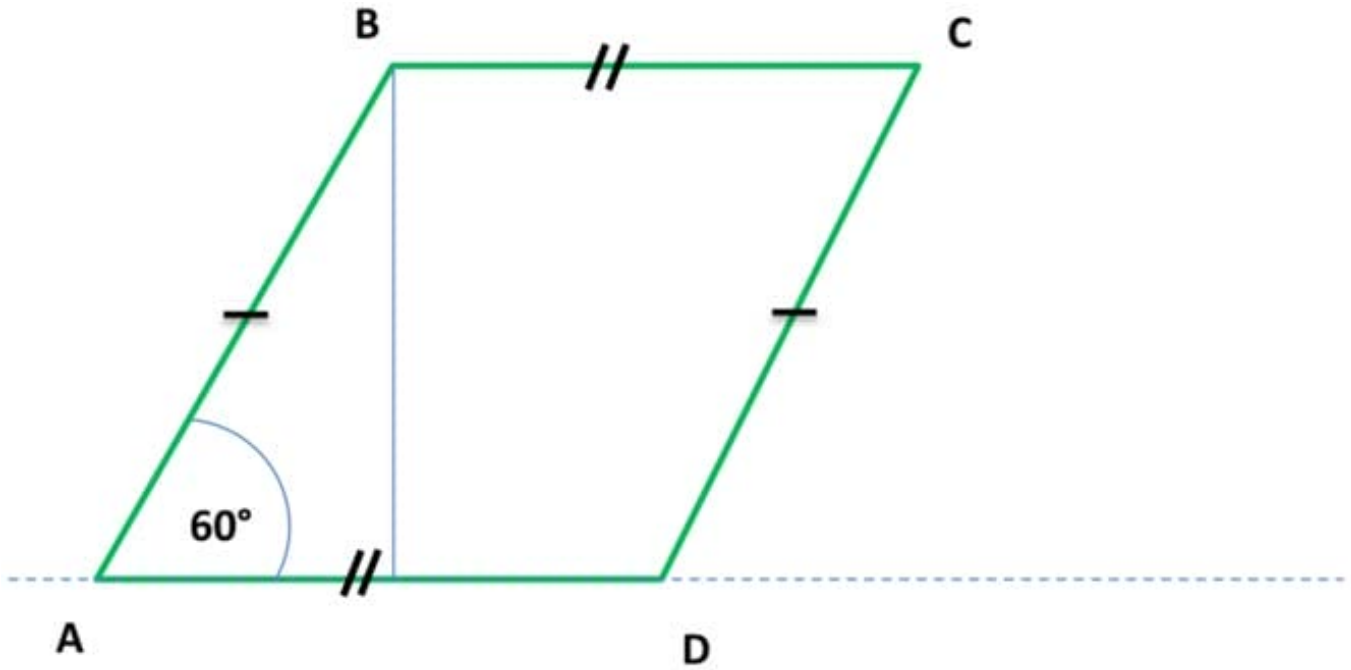
D. straight

Correct Answer: B

Explanation:

An angle of 180 degrees is a straight angle. An angle of 90 degrees is a right angle. An angle greater than 90 degrees but less than 180 degrees is an obtuse angle. An angle less than 90 degrees is an acute angle.

QUESTION 4



Given the diagram of parallelogram ABCD and the measure of A, what is the measurement of angle of C?

A. 120°

B. 90°

C. 60°

D. 240°

Correct Answer: C

QUESTION 5

Solve the following inequity:

2?3(6x – 9) + 4 > 5x + 1

A. x > 6

B. x

C. x > -3

D. x

Correct Answer: C

Explanation: 2?3(6x– 9) + 4 > 5x+ 1 4x – 6 + 4 > 5x + 1 4x – 2 > 5x + 1 4x > 5x + 3 –x > 3 x