



ASVAB-SECTION-6^{Q&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 -term on 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

If $x = 2$, then $xx \times x =$ _____.

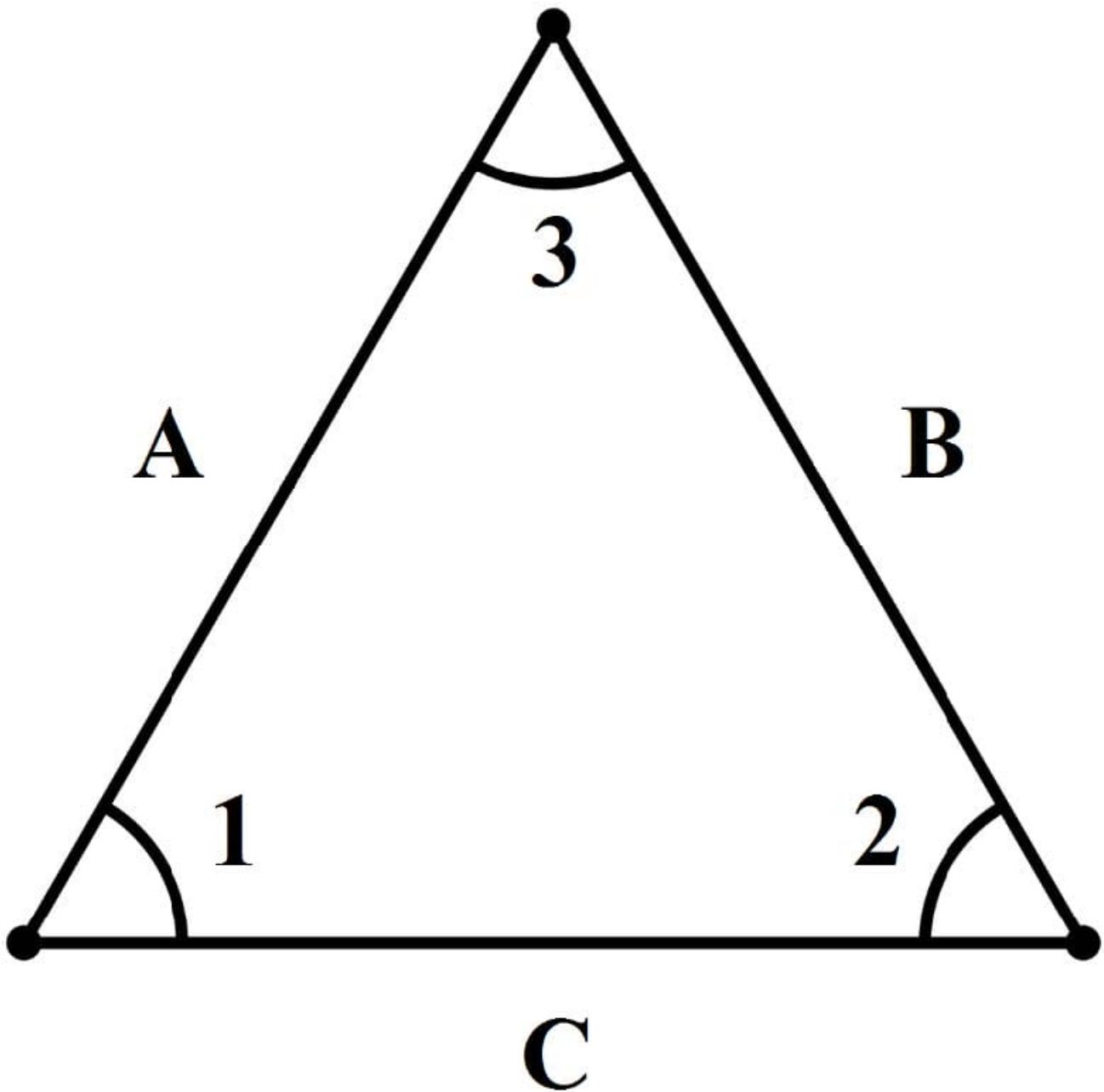
- A. 8
- B. $2xx$
- C. 4
- D. 6

Correct Answer: A

Explanation:

Substitute 2 for all x 's in the problem. $2 \times 2 = 4 \times 2 = 8$.

QUESTION 3



Triangle ABC (shown above) is a(n) _____.

- A. right triangle
- B. obtuse triangle
- C. equilateral triangle
- D. isosceles triangle

Correct Answer: C

Explanation:



In an equilateral triangle, all sides are equal, and all angles are equal.

QUESTION 4

If you cut the largest possible circular tabletop from a square whose sides measure two feet each, how much wood is wasted?

Use 3.14 for π .

- A. 1 square foot
- B. 1.86 square feet
- C. 5.86 square feet
- D. 0.86 square feet

Correct Answer: D

Explanation: Step 1: Find the area of the square. 2 feet x 2 feet = 4 square feet Step 2: Find the area of the circle, using the formula $A = \pi r^2$. (The radius equals half the diameter; the diameter of this circle is 2 feet – the same length as one side of the square.) $3.14 \times r^2 = 3.14 \times 1^2 = 3.14$ square feet Step 3: Subtract 3.14 square feet from 4 square feet to find the wood that is wasted, 0.86 square feet.

QUESTION 5

Solve the following inequality:

$$2 \geq 3(6x - 9) + 4 > 5x + 1$$

- A. $x > 6$
- B. x
- C. $x > -3$
- D. x

Correct Answer: C

Explanation: $2 \geq 3(6x - 9) + 4 > 5x + 1$
 $4x - 6 + 4 > 5x + 1$
 $4x - 2 > 5x + 1$
 $4x > 5x + 3$
 $-x > 3$
 $x < -3$

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