



# SAT2-MATHEMATICS<sup>Q&As</sup>

SAT Section 2: Mathematics

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**QUESTION 1**

SIMULATION

$$(3xy + x) \frac{x}{y}$$

What is the value of when  $x = 2$  and  $y = 5$ ?

A. 4

Correct Answer: A

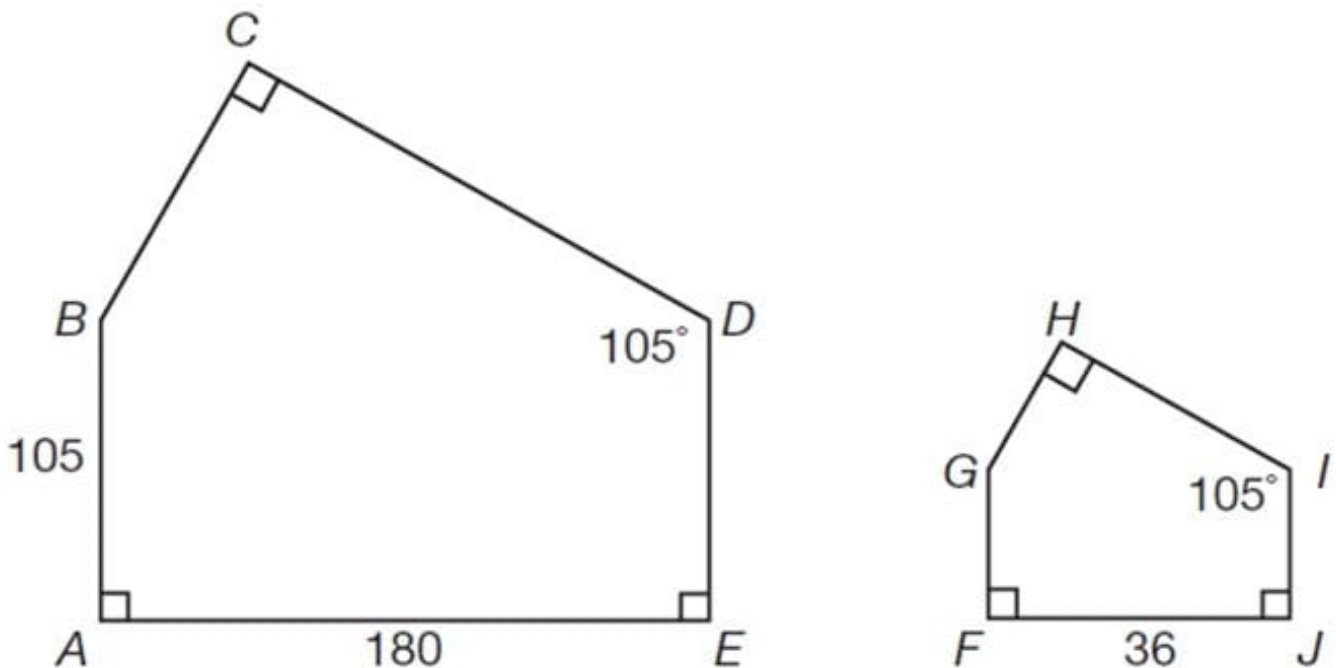
Substitute 2 for  $x$  and 5 for

$$y: (3xy + x) \frac{x}{y} = ((3)(2)(5) + 2) \frac{2}{5} = (30 + 2) \frac{2}{5} = 32 \frac{2}{5} = (\sqrt[5]{32})^2 = 2^2 = 4. \text{ Or, } (3)(2)(5) = 30, 30 + 2 = 32,$$

the 5th root of 32 is 2, 2 raised to the 2nd power is 4.

**QUESTION 2**

SIMULATION A. 21



In the diagram above, what is the length of side  $FG$ ?

Correct Answer: A



Both figures contain five angles. Each figure contains three right angles and an angle labeled 105 degrees. Therefore, the corresponding angles in each figure whose measures are not given (angles B and G, respectively) must also be equal, which makes the two figures similar. The lengths of the sides of similar figures are in the same ratio. The length of side FJ is 36 units and the length of its corresponding side, AE, in figure ABCDE is 180 units. Therefore, the ratio of side FJ to side AE is 36:180 or 1:5. The lengths of sides FG and AB are in the same ratio. If the length of side FG is  $x$ , then:

$$\frac{x}{105} = \frac{1}{5}, \quad 5x = 105, \quad x = 21.$$

The length of side FG is 21 units.

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### QUESTION 3

The product of A. Option A

$$\left(\frac{a}{b}\right)^2 \left(\frac{b}{a}\right)^{-2} \left(\frac{1}{a}\right)^{-1} = ?$$

A.  $a$ B.  $\frac{1}{a}$ C.  $\frac{a^3}{b^4}$ D.  $\frac{a^4}{b^4}$ E.  $\frac{a^5}{b^4}$ 

B. Option B

C. Option C

D. Option D

E. Option E

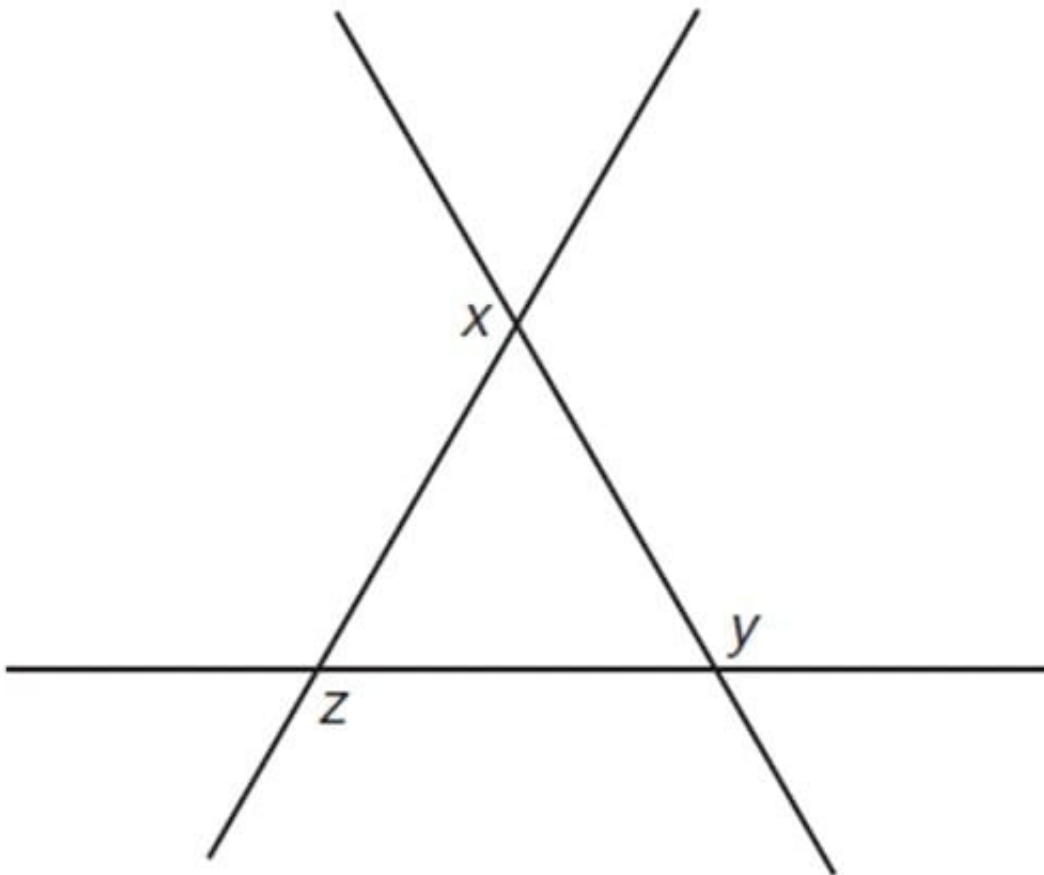
Correct Answer: E

A fraction with a negative exponent can be rewritten as a fraction with a positive exponent by switching the numerator with the denominator.



$$\left(\frac{a}{b}\right)^2 \left(\frac{b}{b}\right)^{-2} \left(\frac{1}{a}\right)^{-1} = \left(\frac{a}{b}\right)^2 \left(\frac{a}{b}\right)^2 \left(\frac{a}{1}\right)^1 = \left(\frac{a^2}{b^2}\right) \left(\frac{a^2}{b^2}\right) (a) = \frac{a^5}{b^4}$$

QUESTION 4



In the diagram above, what is the sum of the measures of the angles x, y, and z?

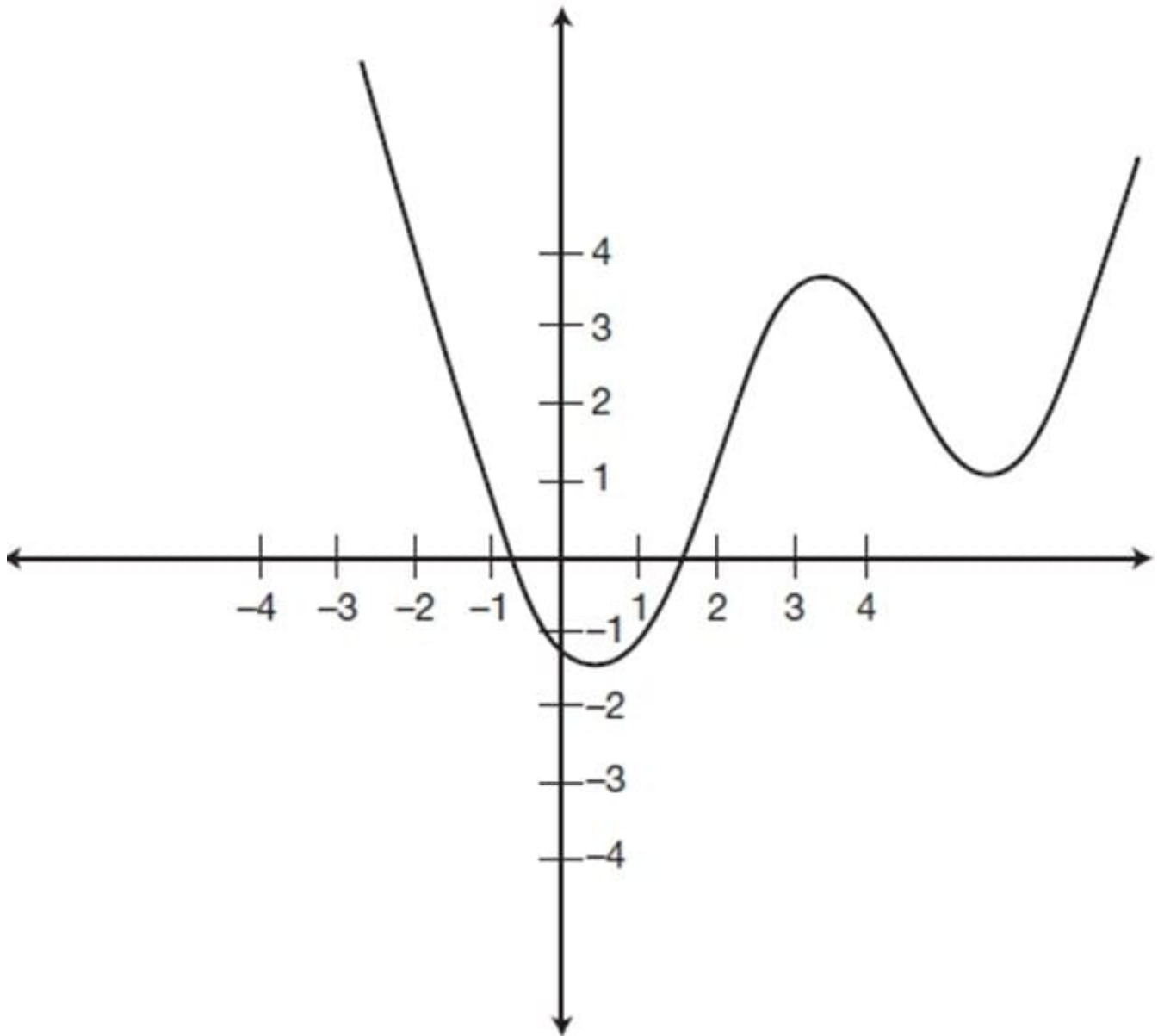
- A. 180 degrees
- B. 360 degrees
- C. 540 degrees
- D. 720 degrees
- E. cannot be determined

Correct Answer: B

There are 180 degrees in a line:  $(x + (\text{supplement of angle } x)) + (y + (\text{supplement of angle } y)) + (z + (\text{supplement of angle } z)) = 540$ . The supplement of angle x, the supplement of angle y, and the supplement of angle z are the interior angles of a triangle. There are 180 degrees in a triangle, so those supplements sum to 180. Therefore,  $x + y + z + 180 = 540$ , and  $x + y + z = 360$ .



QUESTION 5



In the diagram above of  $f(x)$ , for how many values does  $f(x) = -1$ ?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4

Correct Answer: C



The function  $f(x)$  is equal to -1 every time the graph of  $f(x)$  crosses the line  $y = -1$ . The graph of  $f(x)$  crosses  $y = -1$  twice; therefore, there are two values for which  $f(x) = -1$ .

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