

SAT2-MATHEMATICS Q&As

SAT Section 2: Mathematics

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QUESTION 1

Given the following figure with one tangent and one secant drawn to the circle, what is the measure of angle ADB?



- D. 110 degrees
- E. 25 degrees
- Correct Answer: E

The measure of an angle in the exterior of a circle formed by a tangent and a secant is equal to half the difference of the intercepted arcs. The two intercepted arcs are AB which is 60°, and AB which is 110°. Find half of the difference of the two arcs;

$$\frac{1}{2}$$
 (110 - 60) = $\frac{1}{2}$

(50) = 25°.



QUESTION 2



In the diagram above, angle A is congruent to angle BED, and angle C is congruent to angle D. If the ratio of the length of AB to the length of EB is 5:1, and the area of triangle BED = 5 + 10, what is area of triangle ABC?

A. 5a2+ 10

B. 25a2+ 50

- C. 25a2+ 100
- D. 125a2+ 250
- E. cannot be determined

Correct Answer: D





Triangles ABC and BED have two pairs of congruent angles. Therefore, the third pair of angles must be congruent, which makes these triangles similar. If the area of the smaller triangle, BED, is equal to , then the area of the larger triangle, ABC, is equal to

$$\frac{(5b)}{2} \frac{(5h)}{2}$$

or 25 .

The area of triangle ABC is 25 times larger than the area of triangle BED. Multiply the area of triangle BED

by 25: 25(5a2+ 10) = 125a2+ 250.

QUESTION 3

SIMULATION

The ratio of the number of linear units in the circumference of a circle to the number of square units in the area of that circle is 2:5. What is the radius of the circle?

A. 5

Correct Answer: A

The circumference of a circle = 2r and the area of a circle = r^2 . If the ratio of the number of linear units in the circumference to the number of square units in the area is 2:5, then five times the circumference is equal to twice the area:

5
$$(2\pi r) = 2(\pi r)^2$$

 $10\pi r = 2\pi r^2$
10 $r = 2r^2$
5 $r = r^2$
 $r = 5$

The radius of the circle is equal to 5.



QUESTION 4

What two values are not in the domain of



A. -3, 12

B. 3, -12

- C. -6, 6
- D. -6. 36
- E. 9, 36

Correct Answer: A

QUESTION 5

The statement "Raphael runs every Sunday" is always true. Which of the following statements is also true?

- A. If Raphael does not run, then it is not Sunday.
- B. If Raphael runs, then it is Sunday.
- C. If it is not Sunday, then Raphael does not run.
- D. If it is Sunday, then Raphael does not run.
- E. If it is Sunday, it is impossible to determine if Raphael runs.

Correct Answer: A

The statement "Raphael runs every Sunday" is equivalent to "If it is Sunday, Raphael runs." The contrapositive of a true statement is also true. The contrapositive of "If it is Sunday, Raphael runs" is "If Raphael does not run, it is not Sunday."

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