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CAT PRACTICE: COORDINATE GEOMETRY

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The following topics are covered in the CAT quant section from Geometry - Coordinate Geometry. Detailed explanatory answers, solution videos and slide decks are also provided.

1 STRAIGHTLINE SHORTEST DISTANCE

Set S contains points whose abscissa and ordinate are both natural numbers. Point P, an element in set S has the property that the sum of the distances from point P to the point (3,0) and the point (0,5) is the lowest among all elements in set S. What is the sum of abscissa and ordinate of point P?

- A. 2
- B. 3
- C. 5
- D. 4

Correct answer Explanatory Answer Integer coordinates

Hard

2 COORDINATE GEOMETRY AND PROBABILITY

Region R is defined as the region in the first quadrant satisfying the condition 3x + 4y < 12. Given that a point P with coordinates (r, s) lies within the region R, what is the probability that r > 2?

- A. $\frac{1}{4}$ B. $\frac{1}{2}$
- C. $\frac{1}{5}$
- D. $\frac{1}{2}$

Correct answer

Explanatory Answer Geo

Geometric Probability

Hard

3 COORDINATE GEOMETRY AND GREATEST INTEGER FUNCTION

Region Q is defined by the equation 2x + y < 40. How many points (r, s) exist such that r is a natural number and s is a multiple of r?

- A. 84
- B. 92
- C. 105

D. 72

Correct answer

Explanatory Answer Integer values

Har

4 ANGLE BISECTOR THEOREM

What is the equation of a set of points equidistant from the lines y = 5 and x = -4?

- A. x + y = -1
- B. x y = -1
- C. x + y = 1
- D. -x + y = -1

Correct answer Explanatory Answer

Points equidistant from lines

Hovel

AREA UNDER CURVE

What is the area enclosed in the region defined by y = |x - 1| + 2, line x = 1, X-axis and Y-axis?

- A. 5 sq units
- B. 2.5 sq units
- C. 10 sq units
- D. 7 sq units

Correct answer Explanatory Answer Modulus graph

Mediur

6 AREA OF SEGMENT

Find the area of the region that comprises all points that satisfy the two conditions $x^2 + y^2 + 6x + 8y \le 0$ and $4x \ge 3y$.

- 25π В.
- $\frac{25\pi}{4}$ C.
- D. None of these

Correct answer Explanatory Answer

Hard

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2IIM - CAT Preparation 10-C, Kalinga Colony Bobbilliraja Salai, K K Nagar Chennai - 600 078 Phone: +91 44 4505 8484, 99626 48484,

74060 48484 E-mail: rajesh@2iim.com



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