



GMAT

Quant Section Test [COORDINATE GEOMETRY] - Questions

1. Points A (10, 4) and B (-4, -10) are two vertices of an isosceles triangle. If C is the third vertex and has a y – coordinate of 6, what is the x – coordinate of C?
 - A. 4
 - B. -4
 - C. -6
 - D. 6
 - E. None of these

2. Given the equation of the circle is $4x^2 + 4y^2 = 20^2$. How many points on the circumference have both 'x' and 'y' co-ordinates integers?
 - A. 4
 - B. 8
 - C. 10
 - D. 12
 - E. 15

3. Line X passes above the points (3, 3) and (20, 10) and below the points (3, 3) and (15, 10). Which of the following could be the slope of line X?
 - A. $\frac{1}{4}$
 - B. $\frac{2}{7}$
 - C. $\frac{1}{2}$
 - D. $\frac{7}{8}$
 - E. $\frac{12}{5}$

4. Lines 'r' and 's' lie in the xy-plane. Is the slope of line 's' greater than the slope of line 'r' ?
 - (1) Lines r and s intersect at the point (5, 1).
 - (2) The y-intercept of line 'r' is greater than the y-intercept of line 's'.
 - A. Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question asked.
 - B. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
 - C. Both statements 1 and 2 together are sufficient to answer the question but neither statement is sufficient alone.
 - D. Each statement alone is sufficient to answer the question.
 - E. Statements 1 and 2 are not sufficient to answer the question asked and additional data is needed to answer the statements.

5. When a line 'p' is drawn in the xy- coordinate; does the line 'p' have a positive x intercept?
1. (y intercept of line p) (slope of line p) > 0
 2. (Slope of line p) – (y intercept of line p) < 0
- A. Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question asked.
- B. Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question asked.
- C. Both statements 1 and 2 together are sufficient to answer the question but neither statement is sufficient alone.
- D. Each statement alone is sufficient to answer the question.
- E. Statements 1 and 2 are not sufficient to answer the question asked and additional data is needed to answer the statements.

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