

Math Reviewer – Mock Test

Part I. True or False. Write TRUE if the statement is correct. If not, write FALSE. Write your answer in all CAPITAL LETTERS.

1. The rectangular coordinate system is a system that is used to locate points in a plane using an ordered pair of numbers.
2. A linear equation in two variables can be written in the form $y = mx + b$, where m is the slope and b is the y -intercept.
3. The slope of a line is the change in x divided by the change in y .
4. If the slope of a line is negative, the line will be a vertical line.
5. The table of values method is used to determine the x and y intercepts of a line.
6. To find the y -intercept of a line, substitute $x = 0$ into the equation of the line and solve for y .
7. A line that passes through the points $(2,5)$ and $(4,9)$ has a slope of 2.
8. If two lines have the same slope, they must be parallel.
9. A line with a slope of zero is a horizontal line.
10. The y -intercept of a line is the point where the line intersects the x -axis.
11. To find the equation of a line, you need to know the slope and one point on the line.
12. A line that passes through the points $(0,5)$ and $(5,0)$ has a slope of -1.
13. If two lines are perpendicular, their slopes are negative reciprocals of each other.
14. The point-slope form of a linear equation is $y - y_1 = m(x - x_1)$.
15. The slope-intercept form of a linear equation is $y = mx + b$, where m is the y -intercept and b is the slope.