

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.