

### 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.