Algebra II Pre-AP/GT Date: $\qquad$ Period: $\qquad$
Could be dhopet 2 Sometimes True, Always True, Never True

1. An equation in two variables has an infinite number of solutions solutions as ordered purr $\rightarrow$ Alwate.
2. A rectangular coordinate system has two real number axes.
alurabos
3. In the graph of an ordered pair, the first number is the $y$-coordinate and the second number is the $x$-coordinate.
4. The solution of an equation with two variables is an ordered pair.
5. The point $(-2,-4)$ is in the fourth quadrant.
6. In quadrant III, the second coordinate of a point is negative.
7. A set of ordered pairs is called a function. $\operatorname{som}+$ time
8. A function is a relation.

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a b u n d y
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9. The domain of a function is the set of real numbers.
10. Zero is excluded from the domain of a function.

## sunctinate


11. $f(a)$ represents a value in the range of a function when $a$ is a value in the domain of the function. always;
12. Two ordered pairs of a function can have the same first coordinate. never
13. The graph of $y=1 / x+2$ is the graph of a linear function. never
14. The graph of $y-3=0$ is a vertical line.
yes hormortat
15. The graph of a straight line crosses the $x$-axis when $y=0$. aburavy
16. The graph of a linear equation is a straight line.

## aura

17. The point at which a line crosses the $y$-axis is the $x$-intercept. never
18. $x y+2=0$ is an example of a linear equation. never

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x y=-2 \quad y=-2
$$

19. The slope of a line that slants downward to the left is positive. alvaro

20. The $y$-intercept of a line is the point at which the line crosses the $y$-axis. alva,
21. The slope of a vertical line is zero, novas
undeford
22. A line whose slope is undefined is parallel to the $y$-axis. a lututye

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23. Increasing the value of $m$ in the equation $y=m x+b$ increases the slope of the line that is the graph of the equation.

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24. Decreasing the value of $b$ in the equation $y=m x+b$ decreases the slope of the line that is the graph of the equation.
never
25. The point-slope formula for the equation of a line is $y=m\left(x-x_{1}\right)$. $y-y_{1}=m\left(x-x_{1}\right)$
26. $x=a$ is the equation for a vertical line. actuator since we have wo r wast wo r
27. The line represented by the equation $y=2 x-1 / 2$ has slope $-1 / 2$ and $x$-intercept 2 . Never $m=2$
28. If $y=m x+b$, then $m$ represents the rate of change of $y$ with respect to $x$. ally
29. A horizontal line has no slope. never.
30. Perpendicular lines have the same $y$-intercept. Somme finale
31. Parallel lines have the same slope. anuran
32. Two lines are perpendicular if $m_{1} * m_{2}=1 \quad m_{0} * w_{2}=-1$ Never
33. A vertical line is perpendicular to a horizontal line. alutatras
34. A line parallel to the $y$-axis has zero slope.

35. It is possible to write a linear inequality in two variables that has no solutions. never
36. The exponents on the variables in a linear inequality in two variables are 1. aura.
37. The graph of a linear inequality is a half-plane. ale sat
38. The graph of a linear inequality in two variables represents a function. never
39. The solution of a linear inequality in two variables containing $\leq$ or $\geq$ includes the line separating the half-planes.
aluarr
40. The solution of the inequality $y>x+2$ is all the points above the line $y=x+2$.

