10-1 Review of Linear Equations: Graphing \& Writing Equations

Objective: I can graph linear equations.

Linear equation: an equation that makes a straight line when graphed

Linear or Not Linear? Why?


Linear

Quajratic


Linear Equations cont.
What do Linear equations have?
slope and intercepts
What form do we write linear equations in to graph them? slope-intercept form ( $\mathrm{y}=\mathrm{mx}+\mathrm{b}$ ).

$$
\begin{aligned}
& m=\text { slope (steepness) } \\
& b=y \text {-intercept Where it crosses }
\end{aligned}
$$

$$
y \text {-axis }
$$

How to find slope:


How to find $y$-intercept:

- plug 0 in for x and solve for y

Look For where itcrosses


What is a linear equation?
an excavation of degree 1. (rakes a line) highest exponet is 1
What is a linear system?
two or more linear eavations

What does it mean to solve a linear system?
Finding where the equations cross
vocabulary: Consstermopenaen
Consistent Independent
Inconsistent-systems with no solutions Coinciding Lines-System with the same line



