

Graphing Linear Equations and Interpreting Slope

Name _____ Date _____

2 = surpasses expectations, 1 = meets expectations, and 0 = does not meet expectations.
On blanks to the left, "+" = strengths and "-" = needs improvement.

Draws coordinate planes and graphs points.

2 1 0

- Draws perpendicular axes.
- Labels horizontal axis with x .
- Labels vertical axis with y .
- Draws uniformly spaced tick marks on each axis.
- Identifies origin and quadrants.
- Writes ordered pairs given points in the plane.
- Graphs points given the ordered pairs.
- Identifies quadrant of an ordered pair without graphing.

Graphs linear equations without using slope.

2 1 0

- Graphs linear equations by plotting points.
- Graphs linear equations by x and y intercepts.
- Recognizes form of vertical and horizontal lines.
- Graphs horizontal and vertical lines.

Develops concept of slope.

2 1 0

- Recognizes slope is a measure of steepness.
- Knows slope is the ratio of rise over run.
 - equates "rise" with change in y -coordinates
 - equates "run" with change in x -coordinates
- Calculates slope given two ordered pairs.
- Interprets the sign of the slope.
 - knows positive slopes rise from left to right
 - knows negative slopes fall from left to right
 - knows zero slopes are horizontal lines
 - knows undefined slopes are vertical lines
- Finds rates of change.
- Finds parallel and perpendicular slopes.

Applies slope-intercept form to graphing.

2 1 0

- Writes linear equations in slope-intercept form ($y = mx + b$).
- Graphs linear equations using slope-intercept form.

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