

CRIB SHEET

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Course: MFM 1P

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Equation of a line $y = mx + b$

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 slope y intercept

Slope Formula $m = \frac{y_2 - y_1}{x_2 - x_1}$

example Find the slope given $(5, -2), (2, 4)$
 $x_1 \ y_1 \quad x_2 \ y_2$

steepness of line

horizontal line
(zero slope)

vertical line
(undefined slope)

slope

negative slope

positive slope

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4 - (-2)}{2 - 5} = \frac{4 + 2}{2 - 5} = \frac{6}{-3} = -2$

graphs — independent variable on the x axis
usually TIME (minutes, hours, days)

- dependent variable on the y axis
example cost (\$)

- direct variation - graph: passes through the origin

- indirect variation graph does not pass through the origin

Teacher Approved

Teacher Approved E. Quatrom