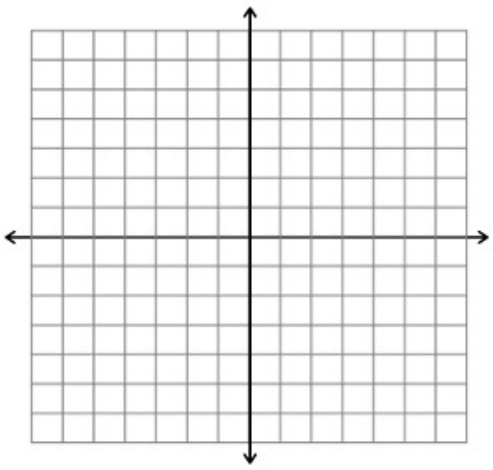
Unit 3: Lines

(Chapter 3, page 104)

	Graphs of Lines (linear equations)	Page 122
☐	Graph of a line. ---- General line equation: $y = mx + b$ ---- x-intercept ; y-intercept (indicate on graph) ---- Slope of a line $\frac{\text{change in } y}{\text{change in } x}$ ---- Vertical line slope: _____ ---- Horizontal line slope: _____ ---- Line that goes through the origin $y =$ _____ ---- Parallel lines m_1, m_2 : _____ ---- Perpendicular lines m_1, m_2 : _____ ---- Positive slope, negative slope (indicate on graph) ---- Examples 	Theorem 3-1 Theorems 3-9 and 3-10

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	Lines	
☐	<u>Slope-intercept form</u> You are given: _____ Formula: _____ <u>Point-slope form</u> You are given: _____ Formula: _____ <u>Two-point form</u> You are given: _____ Formula: _____ <u>Standard form</u> Formula: _____	Theorem 3-7 Theorem 3-5 Theorem 3-6 Theorem 3-8
☐	<u>Intersection of two lines</u> When their x and y coordinates are the same.	

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