Unit 3: Lines

(Chapter 3, page 104)

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|  | **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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_---- 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 3-1Theorems 3-9 and 3-10 |

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|  | **Lines** |  |
|  | Slope-intercept formYou are given: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Point-slope formYou are given: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Two-point formYou are given: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Standard formFormula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Theorem 3-7Theorem 3-5Theorem 3-6Theorem 3-8 |
|  | Intersection of two linesWhen their x and y coordinates are the same. |  |

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