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:  ---- x-intercept ; y-intercept (indicate on graph)  ---- Slope of a line  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ---- Vertical line slope: \_\_\_\_\_\_\_  ---- Horizontal line slope: \_\_\_\_\_\_\_  ---- Line that goes through the origin  ---- Parallel lines  ---- Perpendicular lines  ---- Positive slope, negative slope (indicate on graph)  ---- Examples | Theorem 3-1  Theorems 3-9 and 3-10 |

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|  | **Lines** |  |
|  | Slope-intercept form  You are given: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Point-slope form  You are given: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Two-point form  You are given: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Standard form  Formula: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Theorem 3-7  Theorem 3-5  Theorem 3-6  Theorem 3-8 |
|  | Intersection of two lines  When their x and y coordinates are the same. |  |

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