

Unit 6: Analyse Linear Relations (Ch. 6)

MPM1D – Spring 2012

Learning Goals: By the end of the unit students will be able to:

- Determine slope, and understand the relationship between rate of change and slope
- Express the equation of a line in any of the forms $y = mx + b$, $Ax + By + C = 0$, $x = a$, $y = b$
- Identify the geometric significance of m and b in the equation $y = mx + b$
- Graph lines by hand, using a variety of techniques.
- Determine the equation of a line from information about the line.
- Determine graphically the point of intersection of two linear relations, and interpret the intersection point in the context of an application.

| Date | Topic | Homework Practise |
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| Mon. Apr. 23 | Begin new unit: Analyse Linear Relations | Get Ready pp. 294-295 #1-5 |
| Tues. Apr. 24 | 5.3 Slope | pp. 259-261 #1,2,4,5,6,12 Assignment Handed Out (Due TUES. MAY 2) |
| Wed. Apr. 25 | 5.6 Connecting Variation, Slope, and First Differences | pp. 284-286 C3, #1-4,6,7,9,10,13 |
| Thurs. Apr. 26 (C=Lab 1703) (D=Lab 1703) | 6.1 Equation of a Line in $y = mx + b$ form | Read pp.298-303 pp.303-307 C1,C2,C3 #1ade,2ad,3ad,4,6,8,10,15 Study/Be prepared for Quiz 1 (tomorrow) |
| Fri. Apr. 27 | Quiz 1 6.2 Equation of a Line in $Ax + By + C = 0$ form | pp.312-314 C1 #1,3,4,7,11 Part II of Assignment Introduced |
| Mon. Apr. 30 | 6.3 Graph a Line Using Intercepts | pp.319-321 C1,C2,C3 #1,2a, 3aceg,4ab,5ab,7,9,11 [Answer for 9b is wrong in the text] |
| Tues. May 1 | Reviewing Concepts | Booklet 1-8 "WORDPLAY" Assignment Due Study/Be prepared for Quiz 2 (tomorrow) |
| Wed. May 2 | Quiz 2 6.4 Parallel and Perpendicular Lines | pp.328-329 #3 - 9 (Challenge Problem #10) |
| Thurs. May 3 | 6.5 Find an Equation for a line given Slope & Point | pp.335-336 C1 #1ace,2,5,6 Assignment Handed Out (Due May 9) |
| Fri. May 4 | 6.5 Find an Equation for a line given Slope & Point (cont'd) | Worksheet #1ac,2-4 (Work Ahead on Review: pp.352-355...see May 10) Study/Be prepared for Quiz 3 (tomorrow) |
| Mon. May 7 | Quiz 3 6.6 Find an Equation for a line given 2 Points | pp.341-343 C1 #1ad,2-4,6,7 (Optional: Worksheet #1aceg,2-5) |
| Tues. May 8 | Assignment: Equations of Lines | In class - Due Tomorrow |
| Wed. May 9 | 6.7 Linear Systems | pp.348-351 C2 #1,2a,9,13,14 |
| Thurs. May 10 | Check/Correct review homework | pp.352-353 #2b,3,5,7a,11-13,15-18 pp.354-355 #1-7,9,10,12,13 Study for Unit 6 TEST (tomorrow) |
| Fri. May 11 | Unit 6 Test on Analyse Linear Relations | (Sunday is Mother's Day. Don't FORGET!!) |