

Unit 3: Relations, Functions, and Graphs

“Picture is worth a thousand words”. In this unit we will verge into the world of visualizing equations, and thus introduce functions, and specifically deal with straight lines and their properties.

Appropriately, we will have two challenge problems: One involving an image, and the other dealing with a straight lines.

Graph paper: We will graph functions in class. Some of the worksheets have graph-paper embedded in them, but (especially if you are a note taker) please bring some graph-paper if you prefer.

Book: We will work much more closely with the book during this unit. I will describe explicitly in many points where and how we follow the book. If you usually do not take good notes, maybe you want to bring the book and note the sections we are covering. In short, recommended (but not mandatory) to bring the book.

Subjects and sections covered:

3-1 Relations and Ordered Pairs

3-2 Graphs

3-3 Functions

3-4 Graphs of linear equations

3-5 Slope

3-6 More equations of lines

3-7 Parallel and Perpendicular lines

Tests:

In lieu of a unit test, and in order to accommodate the holidays, we will have only a quiz in the (about) $\frac{3}{4}$ point of the unit. This will be on

Unit quiz on Friday, Oct-07 for Blocks 8,9.

Unit quiz on Monday, Oct-10 for Block 1 and 3.

The quiz will cover the material up to that point, which should be including section 3-5 ‘slope’, and maybe even section 3-6.

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