MA 15300 Fall 2014

Here is a checklist of what is assigned for Week 3 to do by 11:59 PM **Sunday, September 14.**
Note: E-HW2 *Sections 2.1 and 2.2* is due 11:59 PM **Wednesday, September 17.**

		Tasks for Week 3 **Modeling with Linear Functions, Input & Output, and Domain & Range**	✓ when done
1.		After reading Section **1.5** of the text, watch the Video of **Class Lecture 6** on Section **1.5**. This video contains a Power Company problem similar to the one discussed on the forum. Learning Objectives: 1. Determine the slope and equation of a horizontal line and a vertical line. 2. Determine the following geometric properties for linear functions from their equations: • when two lines are parallel and when they are perpendicular • when their y-intercepts are positive or negative • when they are increasing or decreasing (or neither) 3. Construct linear models and find intersection points to solve problems and make predictions. After watching the video: **For additional practice, work these problems out of the text (no need to submit them to me)** Section **1.5** – 1 through 18, 22-25, 31, 32, 34 (not for hand-in) The worked out solutions are on reserve at the Information Desk at the Helmke Library. You can get electronic versions of many of these on eHW in the Practice Questions area.	
2.		Complete Interactive Video V08: *A Day at the Races* This 4 min video covers material in Section **1.5.** It is similar to the Power Company Problem. (You have unlimited attempts to earn 100%.)	
3.		 Complete E-HW1 *Chapter 1* due 11:59 PM **Sunday, Sept. 14.** (Unlimited attempts allowed! Your highest score counts.)	
4	a.	Complete Interactive Video V09: *Input and Output* This 5 min video covers material in Section **2.1** of the text. (You have unlimited attempts to earn 100%.) Learning Objectives 1. Use a graph, table, or an equation to evaluate a function or find its input(s) given its output. 2. Solve equations and inequalities and interpret the results. 3. Evaluate functions at given input. Solve y = f(x) for the value of x if given the value of y. After watching the video: **For additional practice, work these problems out of the text (no need to submit them to me)** Section **2.1 --** 9, 10, 16-20, 28, 30, 32 and **Chapter 2 Review --** 21-26, 35, 36 The worked out solutions are on reserve at the Information Desk at the Helmke Library. You can get electronic versions of many of these on eHW in the Practice Questions area.	
	b.	Optional: **Video of Class Lecture 7** is available to watch if you want additional help, but this repeats some of what is done in Interactive Video V09: *Input and Output*	
5.		After reading Section **2.2** of the text, watch the Video of **Class Lecture 8** on Section **2.2** Learning Objectives: 1. Use set notation, inequality notation, or interval notation. 2. Use the following to report the domain and range of a function: • table • verbal description • graph • equation (algebraically using the restrictions on the input variable) 3. Given a function that is used to model a real world situation, report the implied domain and range. After watching the video: **For additional practice, work these problems out of the text (no need to submit them to me)** Section **2.2** – 1-14, 19-24, 27, 29, 36 and **Chapter 2 Review** -- 36 (not for hand-in) The worked out solutions are on reserve at the Information Desk at the Helmke Library. You can get electronic versions of many of these on eHW in the Practice Questions area.	

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6.		Complete Interactive Video V10: *Domain and Range* This video covers material in Section **2.2** (You have unlimited attempts to earn 100%.)	
7.		 Complete E-HW2 *Sections 2.1 and 2.2* due 11:59 PM **Wed., Sept. 17.** (Unlimited attempts allowed! Your highest score counts.)	
8.		Please continue to use the Student Discussion Forum in Blackboard to post questions and answers in the forum called *Chapter 1: Linear Functions and Change* or *Chapter 2: Functions* Substantive activity in the forum will add a maximum of 5 points to your score to *Interactive Video V10: Domain and Range*	