

Lesson 3.05 Graphing Systems of Linear Equations and Inequalities

Overview

The goal of this lesson is to sketch a graph given a function that has been described verbally.

By the end of this lesson you will be able to sketch a graph using verbal clues.

Review of Prior Learning – Prepare For This Topic

The following ordered pairs represent a {relation}. The x coordinates in each ordered pair represent the domain, whereas the y coordinates represent the range of the relation.

{(22,133), (25,216), (24, 195), (22, 148), (21, 74), (20,150)}

Some relations represent a function, where each member of domain is paired with only one member of the range. To determine if a relation is a function, analyze the domains in the series – do you see two different range (y) values for the domain 22? This relationship is not a function.

My steps for lesson 3.05 Graphing Systems of Linear Equations and Inequalities

1. Take preassessment on the Pearson site
2. Navigate to the lesson page and watch the graphing linear equations video
3. Complete the podcast assignment
4. Log on to Apangea and complete the linear equations thread
5. Take postassessment on the Pearson site
6. Blog my reflective summary and post the link to the discussion board.
7. Respond to two classmates' blog entries.

Navigate to the Pearson/Prentice Hall site to take your preassessment. Record your score (self assessment).

Instruction

1. Watch the instructional video on graphing systems of linear equations and inequalities.

Practice

Give it a Try –

1. Create two linear equations or inequalities, determine three points on each line, and graph your results. Using the recording software on your computer, create a podcast describing the two equations/inequalities. Make a digital copy of the graph you described. Upload the podcast and a digital copy of the graph to the assignment drop box.
2. Listen to five peer podcasts of your choice and sketch the resulting graphs. Create a digital image of your graphs and submit them to the second assignment drop box.
3. Finalize the linear equation thread in Apangea, if you have not already done so. If you experience login errors, or you do not have your assigned username and password, please let me know via e-mail.

Assess

1. Navigate to the Pearson/Prentice Hall site to take your postassessment. Record your score (self assessment).

Reflect

(Blog assignment) – Topic:

1. What was the difference in scores between the preassessment and post assessment?

2. Describe the steps you used to sketch a graph from your peers' podcasts. How was it different from reading the points in text format?
3. Post the URL to your blog on the discussion forum.