

## Lesson 3.04 Functions and Equations With Two Variables

### Overview

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The goal of this lesson is for students to analyze a graph where the function is increasing or decreasing, linear or nonlinear

By the end of this lesson you will be able to solve equations with two variables and sketch a graph of the .

### Review of Prior Learning – Prepare For This Topic

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My steps for lesson 3.04  
Rational and Irrational Numbers

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 irrational numbers 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

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1. Watch the instructional video on graphing linear equations. A linear equation is any equation whose graph is on a line. The vertical line test states that a linear

equation is a function unless its graph is a vertical line (like this:  $|$ ) on the Cartesian coordinate.

## Practice

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Give it a Try –

1. From the assignment graphs, analyze the system of linear equations for to decide if they are a function.
2. Begin 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

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

## Reflect

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(DQ assignment) – Topic:

1. What was the difference in scores between the preassessment and post assessment?
2. Graph  $y=|x|$  Is the relation a function? Is it linear? Explain.
3. Post the digital copy on the discussion forum.