

Direct and Inverse Variation Lesson Plan

Standard(s):

A.1 Solve linear equations and inequalities.

Materials:

- Textbook
- Notebook
- Pencil
- Graphing calculator
- Overhead projector
- Blackboard

Lesson:

A. Definition of *Direct Variation*: represented by the equation $y = kx$, where $k \neq 0$. k is known as the *constant of variation*. Simply put, if x increases, so does y .

B. Definition of *Inverse Variation*: represented by the equation $xy = k$, where $k \neq 0$. It is the reverse of direct variation. As one variable increases, the other decreases.

(Guided practice) Classwork: pp. 239-242 (in textbook); examples 1-5

(Guided practice) Classwork: p. 243; 5-11.

(Independent practice) Homework: p. 243; 12-28 EVEN.

Closure: A *proportion* is made up of two equal ratios.