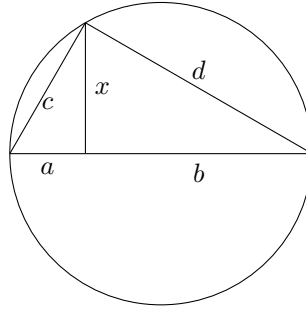


# Tikz Visuals in Latex Assignment

Steven Rizo

Class assigned problem:

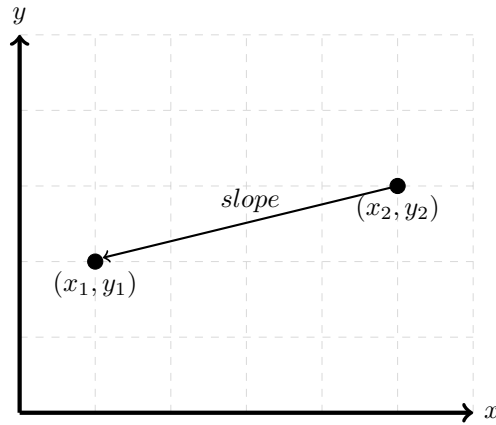


$$c^2 + d^2 = (a + b)^2 \quad (1)$$

$$c^2 = a^2 + x^2 \quad (2)$$

$$d^2 = b^2 + x^2 \quad (3)$$

Visual of determining topography from slope:



Arrow indicates direction of positive slope.

Equation for calculating slope:

$$slope = \frac{y_1 - y_2}{x_1 - x_2} \quad (4)$$

Equation to determine new elevation from slope:

$$y_2 = y_1 - slope(x_1 - x_2) \quad (5)$$