

Math 70 - Quiz 1 Friday September 7th 2007

1). Consider points $a_1 = (0, 0)$, $a_2 = (1, 1)$, $a_3 = (2, 4)$, $a_4 = (3, 9)$.

a). Verify that these points lie on the graph of $y = x^2$.

b). Find the slope of the line segments connecting a_1 and a_2 , a_2 and a_3 , a_3 and a_4 .

c). Is this function a linear function?

2). Identify the slope and the vertical intercept of the line with following equations:

a). $y = -2x$

b). $u = 40 - 6w$

3). $C = 15P + 10$ describes the relationship between the number of people (P) in a dining party and the total cost in dollars (C) of their meals.

a). What are the units 15? What does 15 represent?

b). What would be the projected cost if 8 people attended this party?