2.1. Basies of Functions and their graphs - Part 2 Tuesday, January 28, 2020 10:03 AM Objective 1: Graphs of Functions. Definition: The graph of a function is the graph of its ordered pairs. E.g. f(x) = 2x + 4Ordened pair (x,y) y = f(x) = 2x + 4X (-2,0) (-1,2)(0, 4)0 (1,6) 1 (2,8) 8 anaph of y = f(x) = 2x + 4Note: This function has (-1,2) (-1,2) the form (-2,0) 1 2 3 4 y = f(n) = mn + bWe know that the graph of any function of this form is a distraight line. So, we really just need 2 points to shatch the graph.

Tuesday, January 28, 2020 10:14 AM

Obj 2: Use the vertical line test 24 34 0 X 0 Not a function of y interms Is a function of y in terms of x ofx The vertical line test: If any vertical line intersects a graph in more than one paint, then the graph does not define y as a function of x. E.g. 7 2 0 X ٥ × Not a function

Tuesday, January 28, 2020 10:25 AM

Obj 3: Identify Domain and Range of a function from the graph. Recall: Interval Notation: What is the difference between [-4, 2] and (-4,2) ? -4 D 2 [-4,2]: all the numbers in between -4 un 2 and including the number - 4 and the number 2 (-4,2): all the numbers in between -4 and 2 and excluding -4 and 2 (-4,2): all the numbers in between - 4 and 2 and including - 4 and excluding 2.

Tuesday, January 28, 2020 10:34 AM

