Tuesday, January 28, 2020 10:44 AM

Range: Set of outputs (found on y-axis from the y-coordinate of the lowest point on the graph to the y-coordinate of the highest point on the graph) E.g. Find the domain and the range of the function. Write the answer in interval notation or set builder notation a function y = f(x) included graph Domain : = (-2, 2] (In set builder notation : $\left\{ x \mid -2 < x \leq 2 \right\} \right)$ Not include

Tuesday, January 28, 2020 10:50 AM

Range = (-1, 3] (In set builder notation: {x - L < x < 3}) E.g. $D_{\text{omain}} = \left[-2, \frac{3}{2}\right)$ 5 Range = [1, 4] 3 2 D ٥ × E. 3 4 Domain = (-00,4) Range = (0, 00) 0 × Objective 4: Find x-intercept (s) and y-intercept and other information from graph.

Thursday, January 30, 2020 9:47 AM

* x-intercept and y-intercept. y-intercept y = f(x) 0 - intercept x-intercept: is a point at which the graph crosses the x-axis -intercept: is a point at which the graph crosses the y-axis. y x-intercepts: (-2,0); (2,0); (5,0) E.g. y-intercept: (0,3) Mote: y-coordinate of an x-intercept is Zero. Hence, the x-coordinate of an x-intercept is called a zero of the function Note: x- coordinate of the y-intercept is zero.

Thursday, January 30, 2020 9:56 AM

<u>-.g</u> ነዋ Graph of y = f(x) 2 1 -3 -2 0 . 1 . 2 -1 f(-4) = 2 (go to x = -4 on x -axis, go up to the point on graph with x=-4, find y-coordinate of that point) (b) f(2) = -2(d) f(-8000) = 2 $\bigcirc f(-8) = 2$ €) f (2020) = -2 x-intercept: (0,0); y-intercept: (0,0) For what values of x is f(x) = -1? x = 1. * For what values of x is f(x) = -2? Any value of x that is 2 on greater. In interval notation: [2,00)