

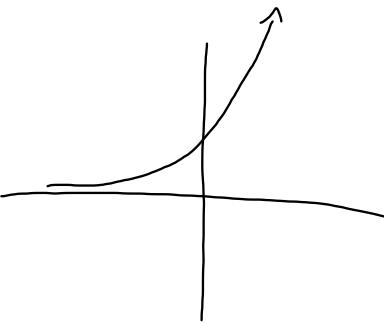
Starter #5 Domain and Range

Calendar Math

3.1 Part 1 Homework Questions

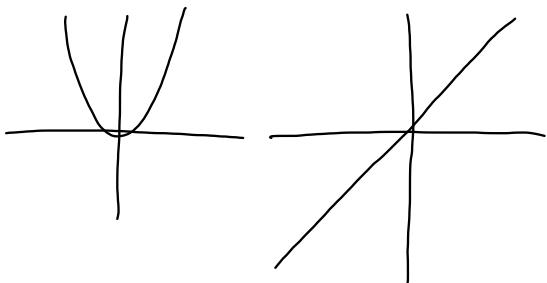
3.2 Part 2 Domain/Range, X/Y Intercepts, Max/Min

Objective: Show and understanding of finding domain/range, x/y intercepts, and max/min by completing the exit ticket and a 3 out of 5 on the 3.1 quiz next class period.



Oct 11-5:11 PM

Oct 12-11:55 AM



Calendar Math

Oct 12-11:55 AM

Oct 11-5:15 PM

Homework Questions

(20)

$$\frac{195}{5} = \frac{5x}{5}$$

$$\text{Cars } 39 \quad 39 = x$$

Students 195

$$D: [0, 195] \quad \{x \in \mathbb{Z} \mid 0 \leq x \leq 195\}$$

$$R: [0, 39] \quad \{y \in \mathbb{Z} \mid 0 \leq y \leq 39\}$$

(26)

$$P = r - C$$

$$P = (0.04x^2 + 60x + 85) - (22x + 25) - 0.04x^2 + 57.78x + 60$$

Oct 11-5:15 PM

Oct 12-12:04 PM

Video

https://www.youtube.com/watch?v=RGnv3e_48Oc

3.1 Part 2 Domain/Range, X/Y intercepts,
Maximum and Minimum
Domain and Range

Oct 10-1:27 PM

Oct 11-5:15 PM

X and Y intercepts

X-intercept: point on the graph where $y = 0$
 - crosses the x-axis.

Y-intercept: point on the graph where $x = 0$
 - crosses the y-axis.

Ex 4

$$x = 4 \quad (0, 4) \quad [4, 0]$$

$$y = 2 \quad (2, 0) \quad [0, 2]$$

Oct 11-5:16 PM

Oct 12-12:25 PM

Ex 5

$$y = 3 \quad [0, 3]$$

$$x = -1.5, 2 \quad [-1.5, 0] \cup [2, 0]$$

Oct 12-12:30 PM

Maximum and Minimum

maximum: highest point

 min:none
 (mountain)

minimum: lowest point

 (valley)

max: none

min: [-1, -7]

[-1, -7]

ex 7

max: [2, 4]

min: none

Oct 11-5:16 PM

Oct 12-12:33 PM

$$y = x^2 - 4$$

$$y^1: x^2 - 4$$

$$y^2: \textcircled{O}$$

graph

2.

Oct 12-12:36 PM

Bunny Rabbit Population Problem:

The observed bunny rabbit population on an island is given by the function below, where t is the time in months since they began observing the rabbits. (a) When is the maximum population attained, (b) what is the maximum population, and (c) when does the bunny rabbit population disappear from the island?

$$p = -.4t^2 + 130t + 1200$$



Oct 9-2:46 PM