

2 Pick up and do the warm up

as soon as you get to part 1c, have <u>one</u> person in your group pick up any needed graphing calculators <u>from MR.C</u>.

Warm Up Notes

1.1.3

1 a. Can -16 be used as an input for  $f(x) = \sqrt{x}$ ?

No therefore -16 is not part of the domain of this function

b. Find two more values that are not part of the domain of f(x)-1

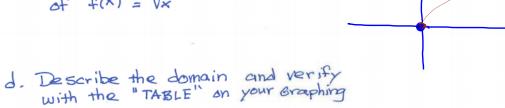
-153

-2

any negative # would not be in the domain.

c. Make a sketch of the graph  $\rightarrow$  of  $f(x) = \sqrt{x}$ 

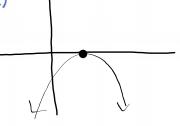
calculator.



domain: 0 2 x 2 co

X20

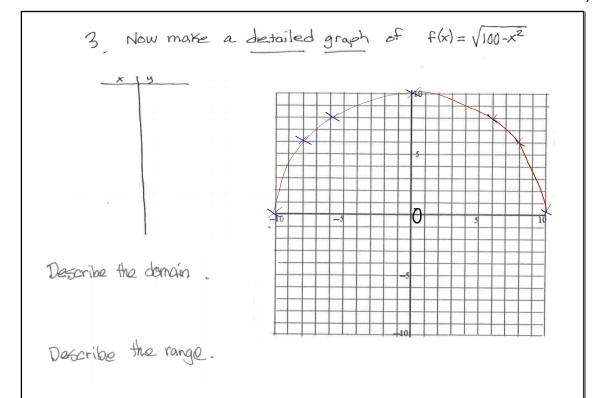
2.a. make a sketch of  $g(x) = -(x-z)^2$ 

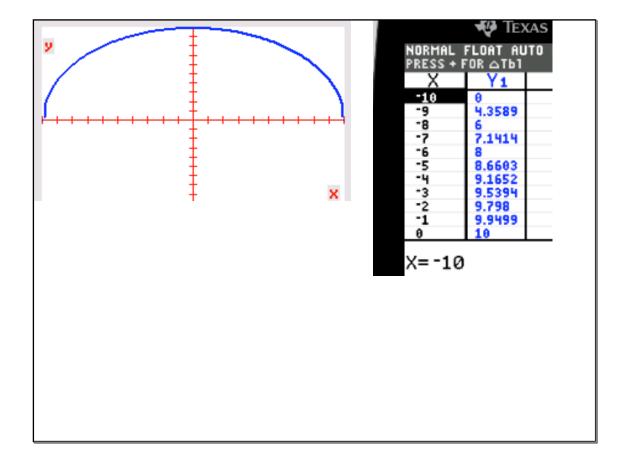


- b. What is the domain?  $-\infty$   $\angle$   $\times$   $<\infty$
- c. What is the range? (of possible x-values)



1





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4 Factor  $2x^2 + 7x + 6$ 

$$\int (2x+3)(x+2)$$

$$(2x + 3)(x + 2)$$

(5) 
$$(2x^3)(-5x^3) = -10x^4$$

$$(4x^{2})(0x^{2}) = (6x^{4})(10x^{2})$$

$$= (60x^{4})(10x^{2})$$

$$= (60x^{4})(10x^{2})$$



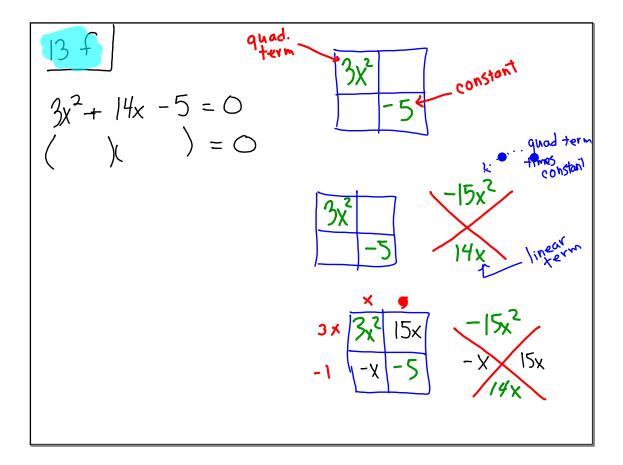
From now on •

1-16

## 1-20

Make a table and graph the function  $f(x) = \frac{1}{2}x^2$ .

$$3(x-2) - 2(x+7) = 2x + 17$$
$$3x - 6 - 2x + 14 = 2x + 17$$
$$x + 8 = 2x + 17$$
$$-9 = x$$



 $\chi^2$ -5x = 0

factor out GCF

a) y=3x+15 b) y=3-3x

when X=2 X= 0

what is the y-intercept?

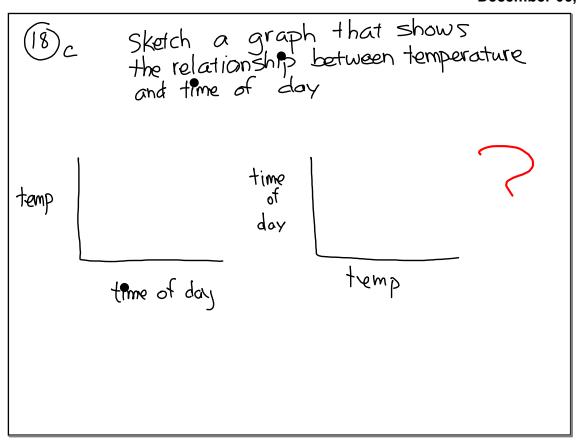
(a) 
$$y = 5x - 2$$

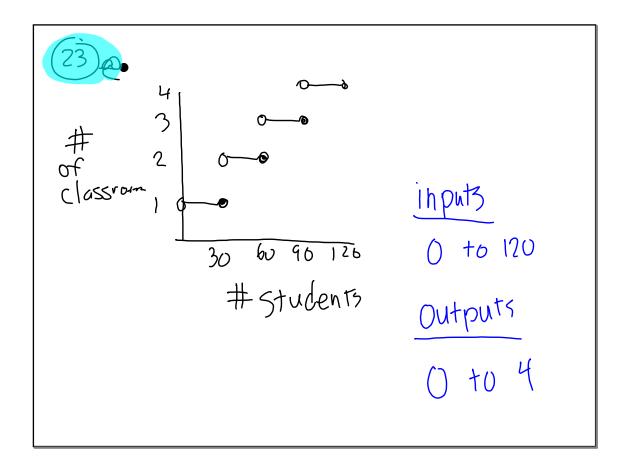
(a) 
$$y = 5x - 2$$
  
(b)  $\int_{1}^{6} nd \cdot x = 2$   
 $y = 5(2) - 2$   
 $= 8$ 

$$f(x) = x^2 + 2x + 1$$

$$(a)$$
  $f(3) =$ 

(a) 
$$f(3) =$$
  
(b)  $f(-4) =$   
(c)  $f(-22.872) =$ 



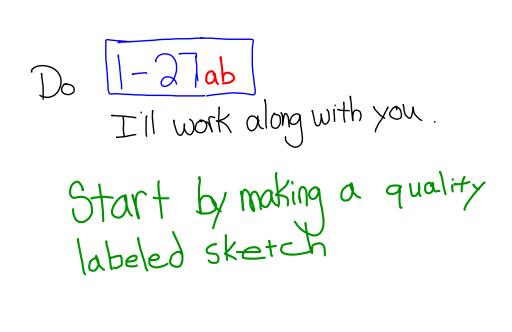




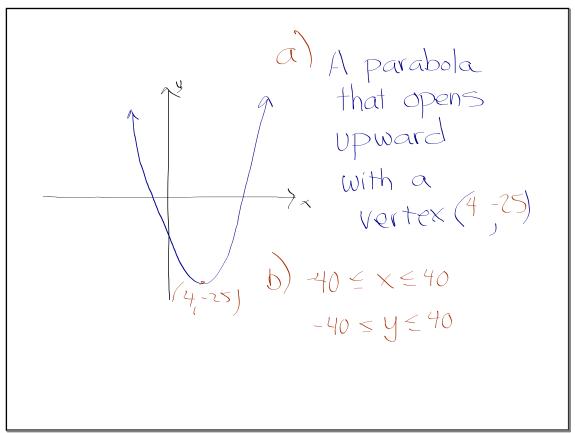
## Find Domain and Range of a function given either its graph or its equation.

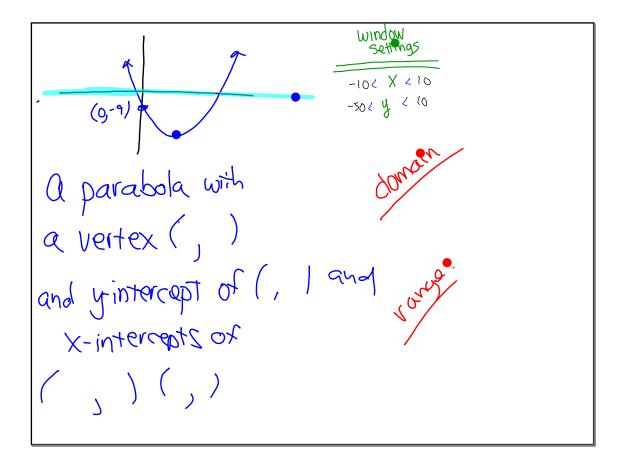
Many days we will use what are called "Core Problems" to develop your understanding of the skills and <u>concepts</u>.

I want you to record this process in your notes.



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a) y = (x+1)(x-9)describe

the graph

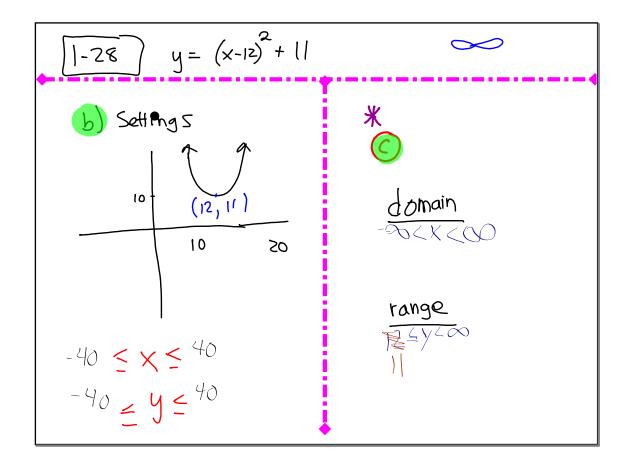
- b) What window?
- c) How are settings related ?

Vertex, x-intercepts, and y-intercepts

BB

g

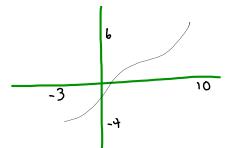
- Be sure everyone in your group is solich before anyone goes on to #1-29



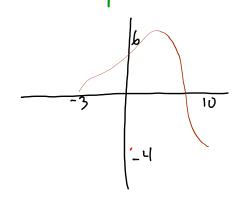
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[1-29a] Sketch a function

domain < x < 10

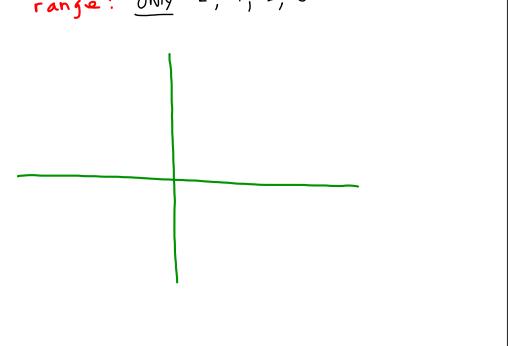


range -4 = y = 6



b) domathio all real numbers - 00 < x < 00

range: <u>ONly</u> 2, 4, 5, 8





$$5x - y = 35$$

$$5x - y = 35$$
  $3x + y = -3$ 

quick

everyone must turn their desks forward

when everyone in your pod has turned it in, the return desks to normal position.

## Assignment

## 1....34-36, 37acde, 38, 40a

If getting a graphing calculator is a hardship at this time for your family, then see me about getting a loaner from the math department. See me before you leave school today.