1 HW Hotline

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.

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

any

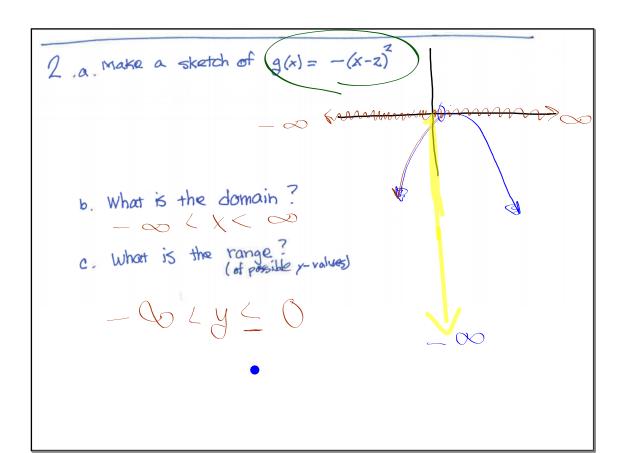
two negative negative negative

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

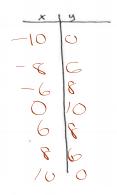
y = 1×

d. Describe the domain and verify with the "TABLE" on your Graphing Calculator.

 $0 \leq \times \leq \infty$ 



3 Now make a detailed graph of  $f(x) = \sqrt{100-x^2}$ 

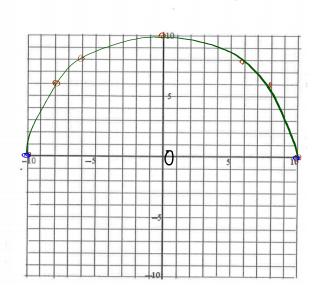


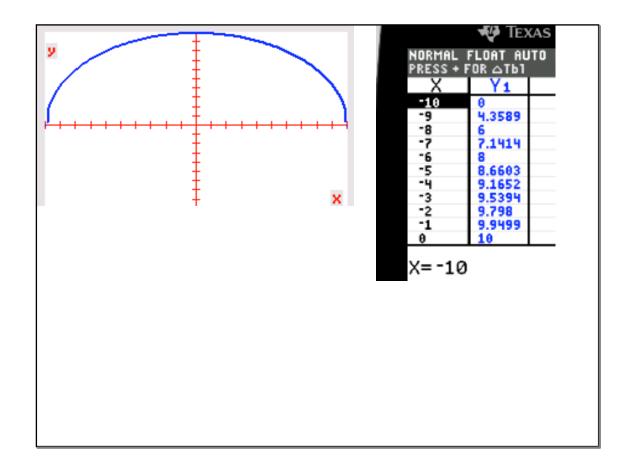
Describe the domain .

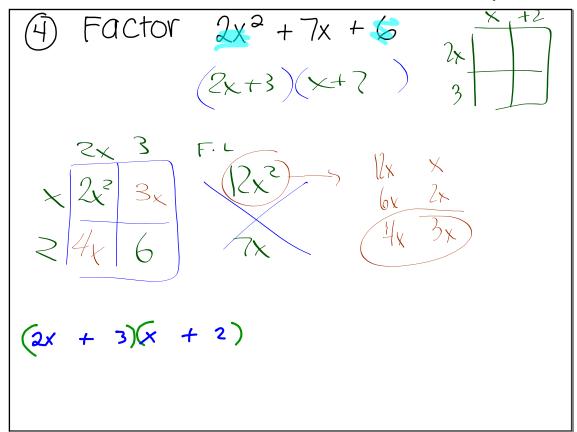
 $-10 \leq \times \leq 10$ 

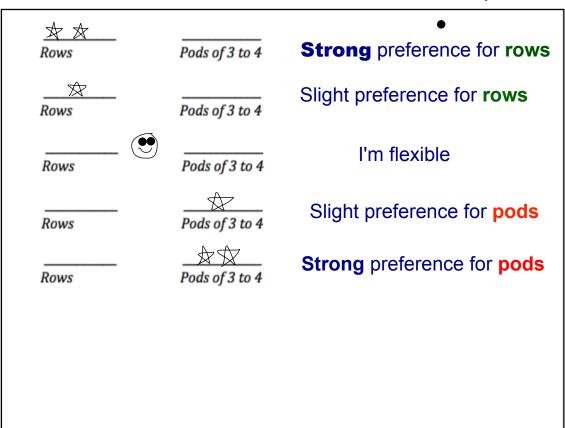
Describe the range.

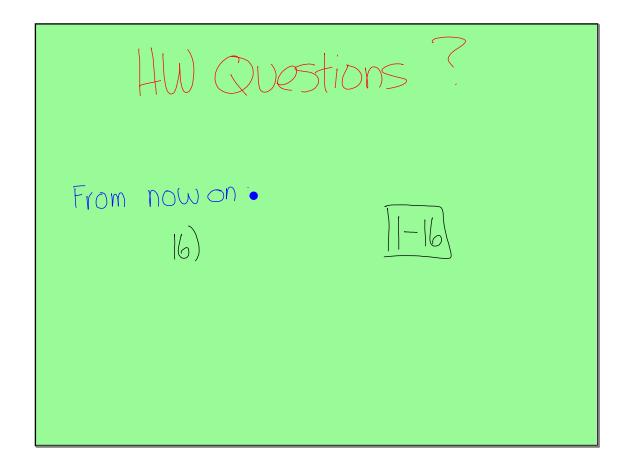
0 2 4 2 10











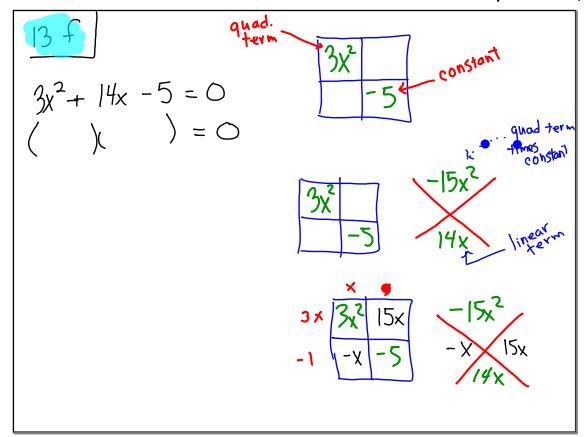
## 1-20

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





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



138	$\chi^2$ -5x = 0 $\uparrow$ factor out GCF

16 a) y=3x+15

b) y=3-3x

when X=2 X= 0

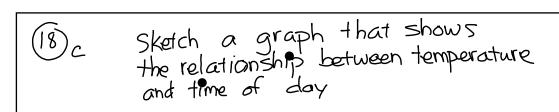
what is the

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

(b) 
$$\int_{-\infty}^{\infty} d^{-1} x = 2$$
  
 $y = 5(2) - 2$   
 $= 8$ 

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

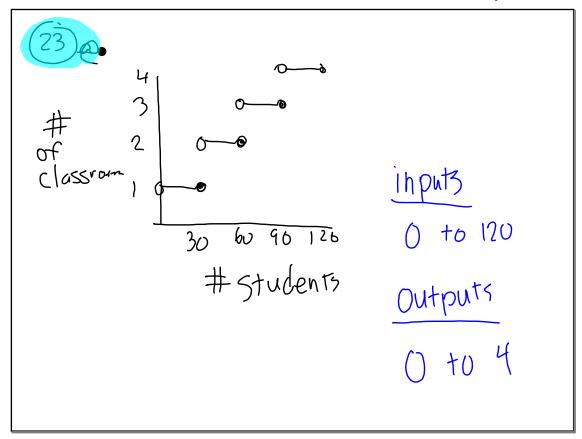
- (a) f(3) =(b) f(-4) =(c) f(-22.872) =



temp

time of day

temp



While using the solutions (and a pen)

1. Mark your HW in a way that makes sense to?

- catch your mistakes

- don't erase onything but consider re-writing a process in a way so you will remember it later and so that it is useful to look at before a test.

2. Thengive yourself a HW proficiency score and write it in int on your assignment and on the Recording sheet.

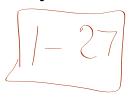
TODAY:

## Find Domain and Range

of a function given either its graph or its equation.

Many days we will use what are called "Core Problems" todevelop your understanding of the skills and concepts.

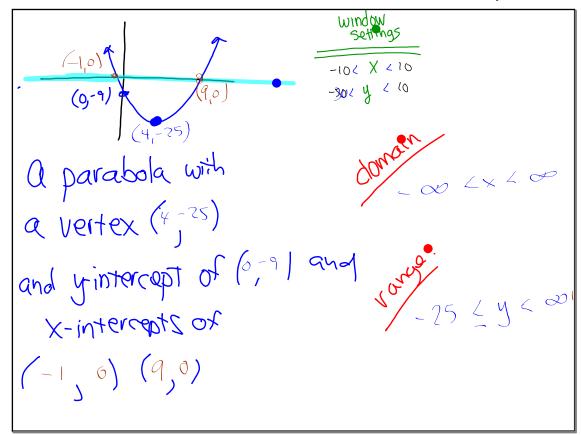
I want you to record this process in your notes.



Do I-27ab

I'll work along with you.

Start by making a quality labeled sketch



$$\frac{1-27}{a}$$

$$y = (x+1)(x-9)$$

$$\frac{1}{4}$$

$$\frac{1}$$

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

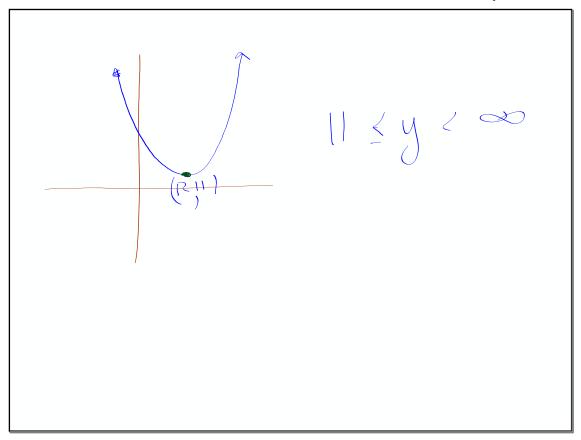
Vertex, x-Intercepts, and y-intercepts

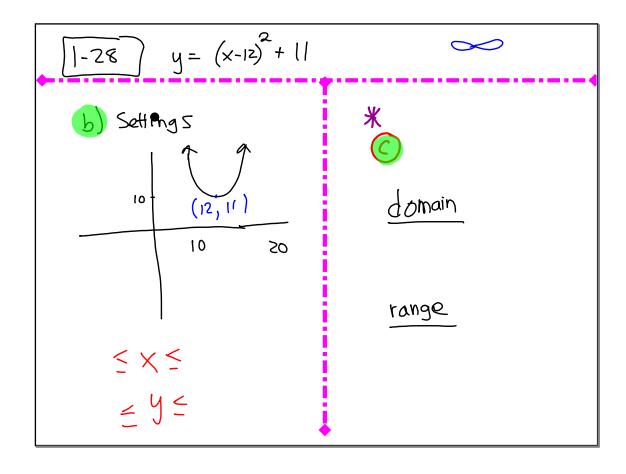
B.B.

continue to [1-28] and [1-29]

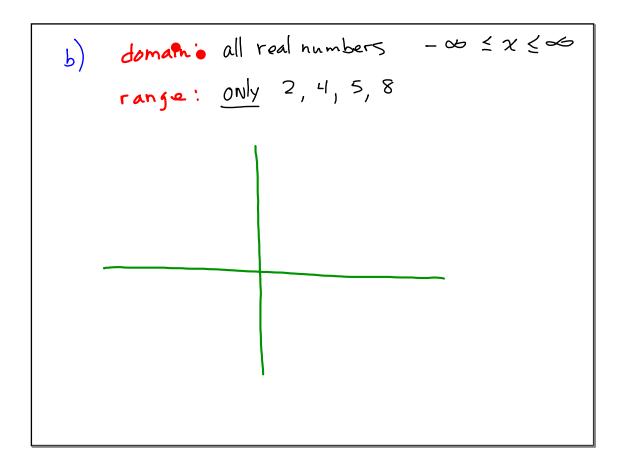
sketch

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





1-29a Sketch a function \*  $tom_{-3}^{ain} \leq x \leq 10$   $tom_{-3}^{ain} \leq x \leq 10$ 





$$5x - y = 35$$

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

## Assignment

## ...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.

I.1.3 Notes	September 10, 2018