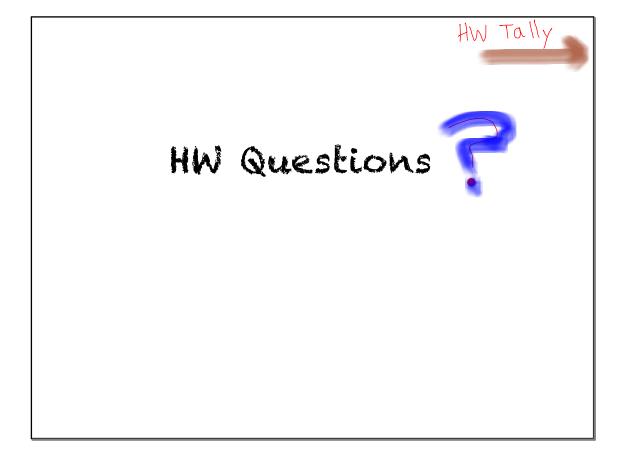
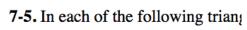
lots of supplies ! on short days: pre-cut out cardboard circles and transparencies.

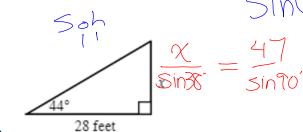


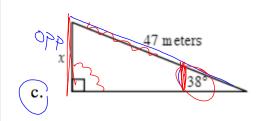
**7-4.** Karin was working on graphing the function  $f(x) = \frac{2}{x-3}$ . She made a table (shown below), but she is not sure how to graph the values in the table. Show Karin how to make her graph and tell her everthing you know about her function. 7-4 HW eTool (Desmos) Homework Help

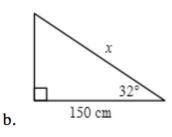
| x    | -3             | -2             | -1             | 0              | 1  | 2  | 3 | 4 | 5 | 6   | 7             | 8             | 9   |
|------|----------------|----------------|----------------|----------------|----|----|---|---|---|-----|---------------|---------------|-----|
| f(x) | $-\frac{1}{3}$ | $-\frac{2}{5}$ | $-\frac{1}{2}$ | $-\frac{2}{3}$ | -1 | -2 | * | 2 | 1 | 2/3 | $\frac{1}{2}$ | <u>2</u><br>5 | 1/3 |

\*undefined

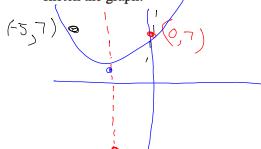


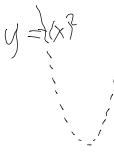






- 7-9. Consider the function  $y = x^2 + 5x + 7$ . 7-9 HW eTool (Desmos). Homework Help
- find the vertex.  $y = (x+7.5)^2 + .7.5$ a. Complete the square to find the vertex.
  - b. Find the *y*-intercept.
- - c. Use the vertex, the y-intercept, and the symmetry of parabolas to find a third point and sketch the graph.





$$y = x^2 + 5x + 7$$

**7-10.** Find the x- and y-intercepts of 
$$y-7=3^{(x+4)}$$
.

$$y=0$$

$$-7=3$$

$$y-7=3$$

$$y-7=81$$

$$x+4=109(7)$$

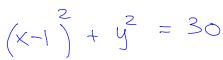
$$(0.88)$$

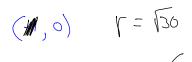
$$x+4 = 109 (7)$$

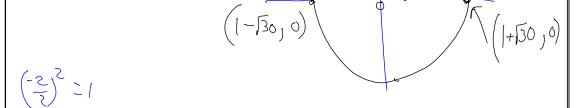
$$(0,88)$$

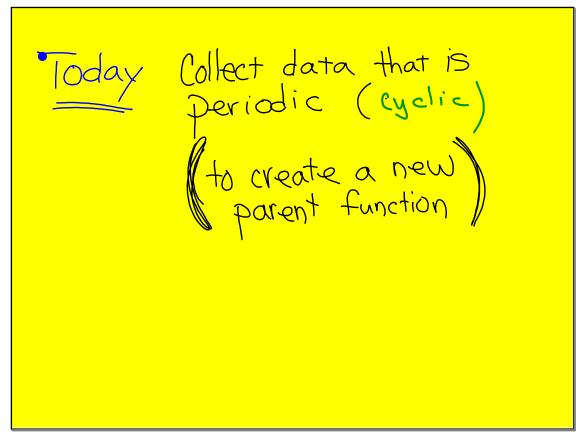
## 7-11. Change $(x^2 - 2x) + y^2 - 29 = 0$ to graphing form, sketch the graph, and label the important points. Homework Help

$$\chi^2 - 2\chi + 1 + \chi^2 = 29 + 1$$









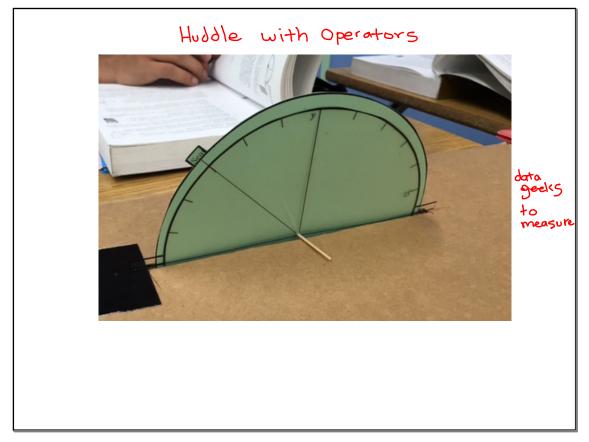
Everyone Turn to page 317

Orators get
ready

Face two desks together.
All group members stand on one side.

| Scribes   | _ | pick up a recording Sheet  (to start - fill out first two columns) only • Then the 3rd later |
|-----------|---|--|
| Data Geek | - | Pick up a transparent ruler and a cardboard base from me                                     |
|           |   |  |
|           |   |  |

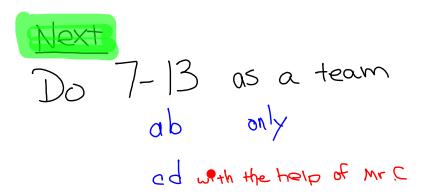
| Degree<br>of<br>Rotation<br>(Platform) | Measured Height $0 \le y \le 1$ | Actual Height<br>Above(or below)<br>Platform<br>include negatives |  |
|--|---------------------------------|---|--|
|  |                                 |   |  |
|  |                                 |   |  |
|  |                                 |   |  |



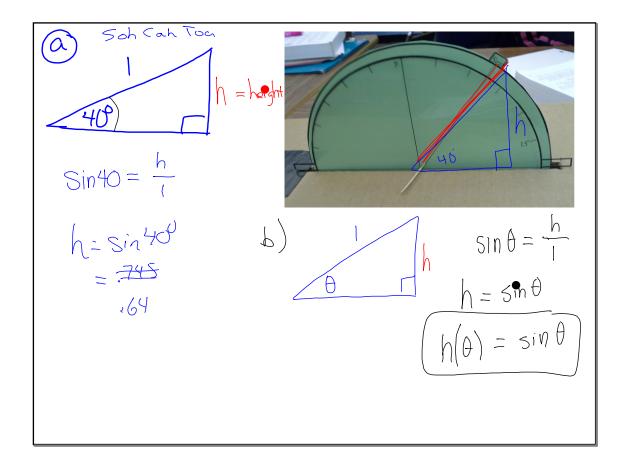
## follow instructions on 7-12 for a, b, c

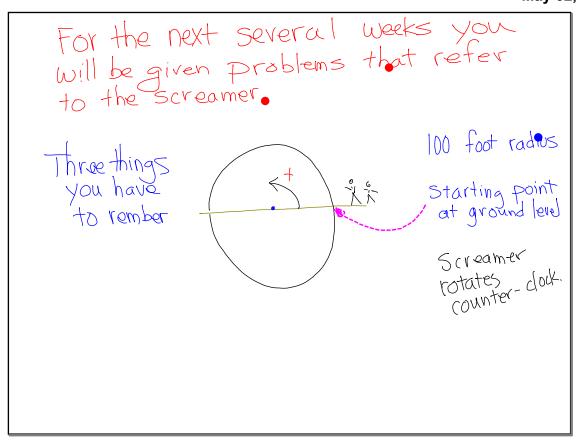
## Each group will turn in

- A recording Sheet
- Graph
- · Answer to part c

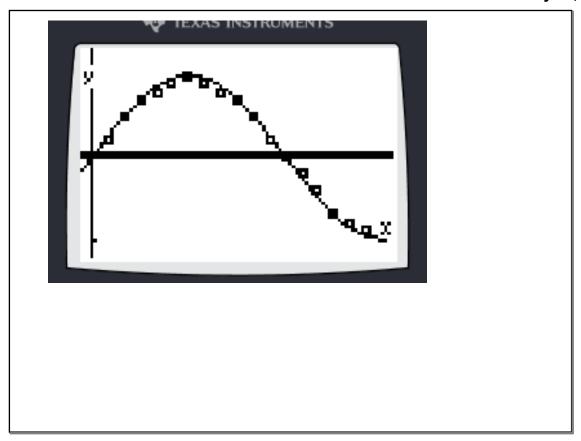


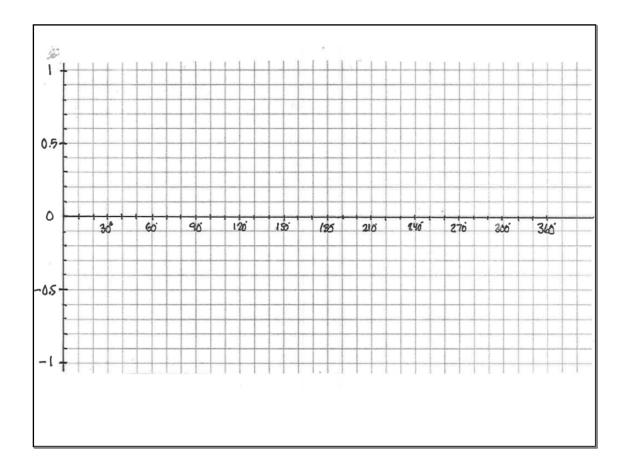
Each of you should write all details in your own notes











Next class.

- \* Well continue to Analyze this data.
- A Staple your table on top of your graph. Write all of your names on top. Turn in.

Assignmen 7....15-16, 18-20, 22-23

do 21 for extra fun (optional challenge)

Yes, I <u>do</u> want you to do #23

む今代

but ask any surfer, and they will tell you waves come in very different sizes, as do all waves

To fully understand waves, we need to understand measurements associated with these waves, such as ......

how often they repeat (their *frequency* )

how long they are (their wavelength),

and their vertical size ( *amplitude* ).

