

HW Help

A) Write the equation of a straight line that has a slope of  $-\frac{3}{7}$  and a y-intercept of (0,7),  $=\frac{-3}{7}\times +7$ 

y=mx+6

## If absent from my class:

- 1. Always check my blog for details, etc
- 2. Always check the Class Papers Basket for...
- 3. Ask for the solutions to the previously scored assignment so you can check your work, etc.

3. 
$$(2x^3)^3 =$$
\_\_\_\_\_

5. 
$$(-3x^2)^3 =$$
\_\_\_\_\_

7. 
$$(___)^2 = 25x^6$$

9. 
$$(_{_{_{_{_{_{_{_{_{_{_{3}}}}}}}}}})^3 = 8x^6y^3$$

11. 
$$(x^2y)$$
— =  $x^6y^3$ 

13. 
$$(-2xy)$$
— =  $16x^4y^4$ 

3. 
$$(2x^3)^3 = 2x^9$$
5.  $(-3x^2)^3 = 27x^9$ 

5. 
$$(-3x^2)^3 = 27x$$

7. 
$$(5x^3)^2 = 25x^6$$

9. 
$$(2 \times^2 y)^3 = 8x^6y^3$$

11. 
$$(x^2y)^3 = x^6y^3$$

13. 
$$(-2xy)$$
 =  $16x^4y^4$ 

2. 
$$(x)^2 =$$

4. 
$$(-2x)^5 =$$

6. 
$$(-4x^2)^3 =$$

8. 
$$(___)^2 = 64x^8$$

12. 
$$(3x^2y^3)$$
— =  $81x^8y^{12}$ 

14. 
$$(6x^3y^4)$$
— =  $36x^6y^8$ 

2. 
$$(x)^2 =$$

4. 
$$(-2x)^5 = \frac{-32x^5}{}$$

6. 
$$(-4x^2)^3 =$$

8. 
$$(\frac{\%}{-\%})^2 = 64x^8$$

10. 
$$(-2 \times )^3 = -8x^3$$

12. 
$$(3x^2y^3) = 81x^8y^{12}$$

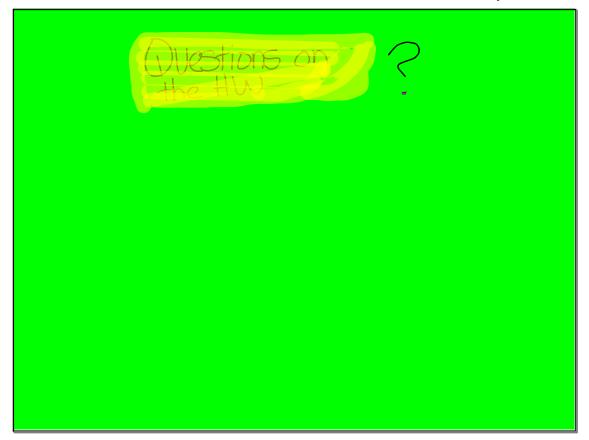
14. 
$$(6x^3y^4)$$
 =  $36x^6y^8$ 

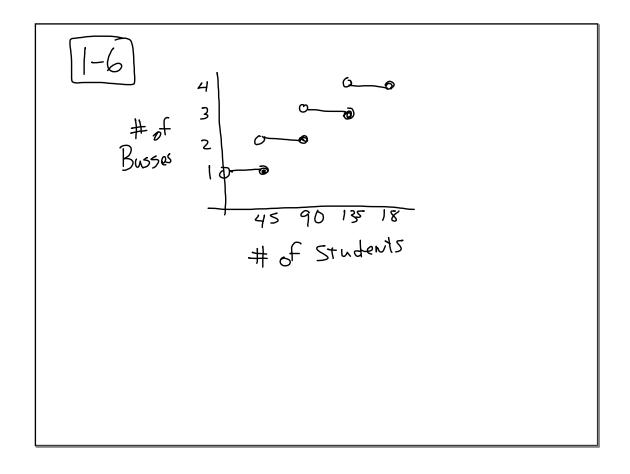
Starting today you will evaluate your Hw using the Rubric.

After going over questions in class, write your score, in ink, on

(a) Your paper

(b) The Recording Shoet.





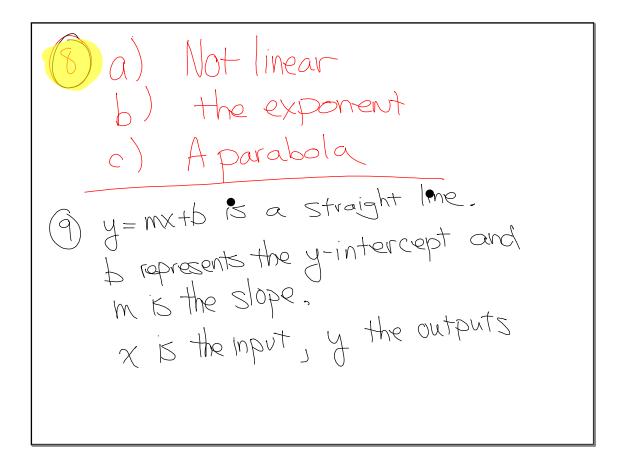
$$g(x) = \sqrt{x-5}$$

$$h(x) = x^2 - 6$$

$$h(6) = 6^2 - 6 = 30$$

$$g(x) = \sqrt{x-5}$$

$$g(30) = \sqrt{30-5} = 7$$



- **1-8.** The graph for part (d) of problem 1-7 is different from the other three graphs. Homework Help

  - 1. Explain how the graph is different from the other three graphs.2. What in the equation of part (d) makes its graph different?3. What is the graph of part (d) called?



- When you graph an equation such as y = 3x 5, which variable (the x or the y) depends on the other? Which is not dependent? (That is, which is *in*dependent?) Explain.
- 2. Which variable is *dependent*: temperature or time of day? Which variable is independent?
- 3. Sketch a graph (with appropriately named axes) that shows the relationship between temperature outside and time of day.

[21] 
$$f(x) = -\frac{2}{3}x + 3$$
  $g(x) = 2x^{2} - 5$ 

(a) 
$$f(3) = -\frac{2}{3}(2) + 3 = 1$$

September 0

21 d

$$f(x) = -\frac{2}{3}x + 3$$

$$g(x) = 2x^{2} - 5$$

a) 
$$f(3) = -\frac{2}{3}x^{2} + 3 = 1$$
d) Solve 
$$g(x) = -7 - 7 = 2x^{2} - 5$$

$$-7 = 2x^{2}$$

$$-1 = x^{2}$$

$$-1 = x^{2}$$

$$-1 = x^{2}$$

$$7d) y = x^{2}$$

$$7ad$$

$$x \mid y$$

$$-1 \mid 1$$

$$-2 \mid 4$$

$$0 \mid 1$$

Remember to Keep all completed HW assignments near your recording Sheet and always have them in class.

## Goals Today

o Use the ZERO PRODUCT PROPERty

2) Use Graphing Calculators to analyze functions and make "Complete" Graphs.

 $2 \cdot b = 10$ 

 $3 \cdot 7 = 21$ 

do we know anything about the factors?

$$a \cdot b = 24$$

$$a \cdot b = 0$$

Sp

Product
property

then a=0 or b=0

## 3 Examples

Solve each quadratic equation using the Zero Product property

a) 
$$(3x-4)(3x-5) = 0$$
  
3x-4=0  $2x-5=0$   
 $3x=4$   $(x=\frac{5}{2})$ 

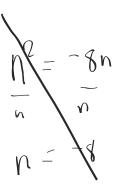
$$(3x-4)(2x-5)=0$$

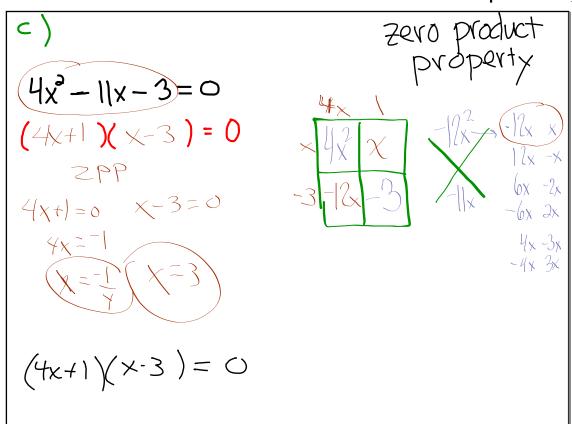
$$(3x-4)(2x-5)=0$$

$$b) \quad D^2 + 8n = 0$$

$$0 = 0$$

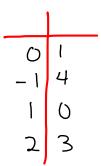




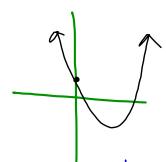


8.8.

In Algebra 1 you learned about the multiple representations of functions:



$$y = x^2 - 2x + 1$$



TABLE

EQUATION

Use graphing calculators

o make "Complete Graphs" to

- · Analyze functions

- · have one person get a GDC for each person in your group.
- . the same person will return all of them.



$$3x+2$$
  
-  $2x^2+3x+1$ 

Sketch

when finished

Clear Y=

- v turn off

In your Notes

will need a half
prece of graph paper

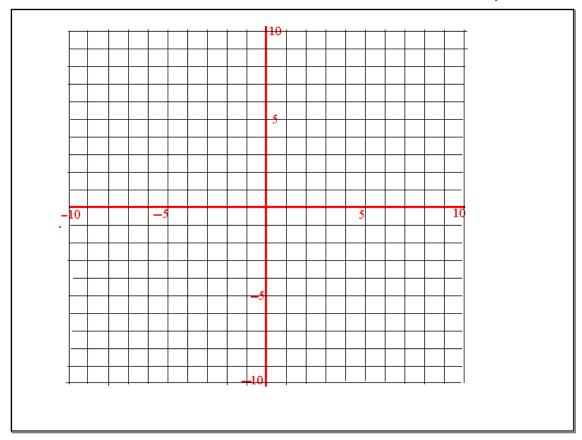
 $y = 2\sqrt{q-x} - 4$ 

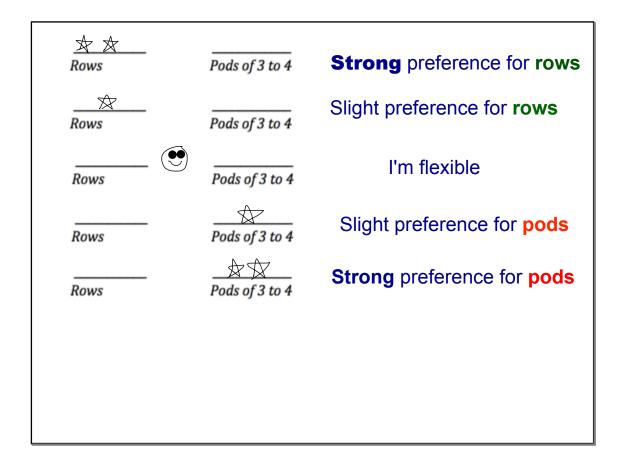
- . What are the locations of key points?
- What is the domain?
- Is there a maximum or minimum y-value?

  If so, what is it?
- 4. Can we identify **5** integer inputs and their outputs? (five graphing friendly points)

Make a Complete on Graph Paper

- · Plot points accurately
- · Scale axis appropriately
- · Label key points





If your group is selected, everyone must contribute to the presentation in some way.

Including at least one Statement starting with

"At first we were confused by..."

"This makes sense because..."

"We weren't sure about..., so we tried..."

"Something interesting that we noticed about our graph is..."

1- 13bdf, 15-17, 20, 25

If you want a challenge, you can do #22 instead of #25

p d f Save if you were absent yesterday, please see me about a short Pre-test we took yesterday

## Avoid the cycle of destruction.

If you are struggling with the work, don't leave school that day unless you get help or come in early the next day.

September 07,	2018