

Distance Learning Overview

Overview: We will be focusing on reviewing the most important topics that we have already covered for the remainder of the school year.

Daily Office Hours

- I will be holding office hours from 10am-12pm every school day.
- Options to get in contact with me during office hours:
 - o Zoom video chatting (look for a link on Schoology)
 - o Email: smizuno@tusd.net
 - o Google Voice text number: (209) 597-8924
 - o Twitter: @scottmizuno
 - o

Assignments

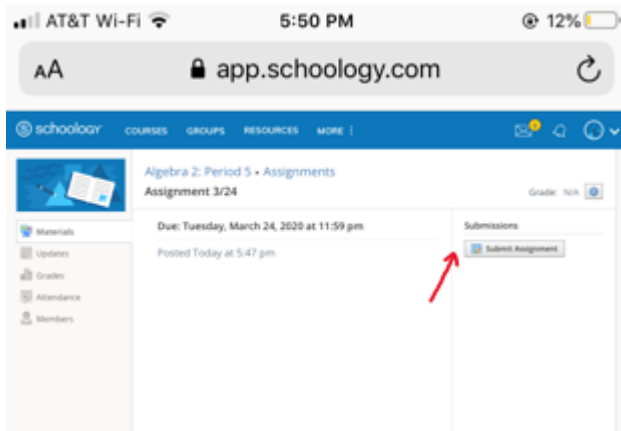
- All assignments will be posted daily.
- The assignments will be posted on Schoology.
- You are going to turn in all of your assignments on Schoology. Check the “Distance Learning Resources” folder to find directions on how to submit assignments.
- If for some reason Schoology is down, email the assignment to me. Make sure you include the Assignment Title in the Subject of the email.
- If you are picking up the assignments from the school, you will turn in the assignments to the school.
- All assignments are due by 11:59 of the day it was assigned.

Resources (other than me)

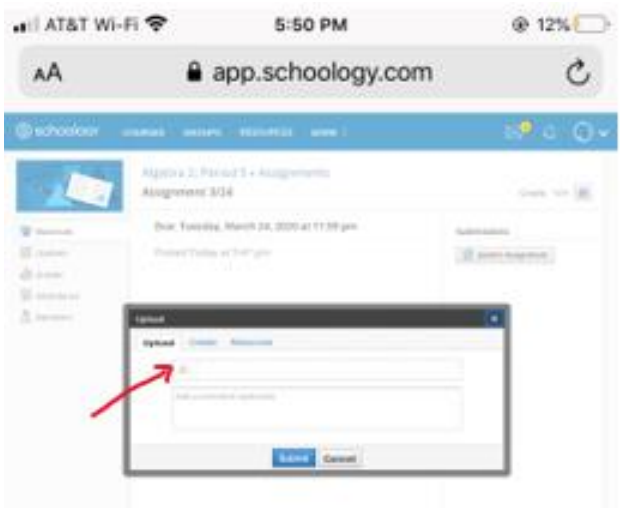
- Your first resource if you need help should be your notebook. Because everything that we are going to do through distance learning is review, you should already have detailed notes on each topic.
- Video tutorials. There are hundreds (if not thousands) of instructional videos about every topic on YouTube. I will post a video or two for each topic that I believe explains a topic well. If that isn't sufficient, there is always another video to watch.
- Classmates. There is somebody in your class that knows how to do the math and is willing to help. Seek out that assistance.

To turn in an assignment on Schoology:

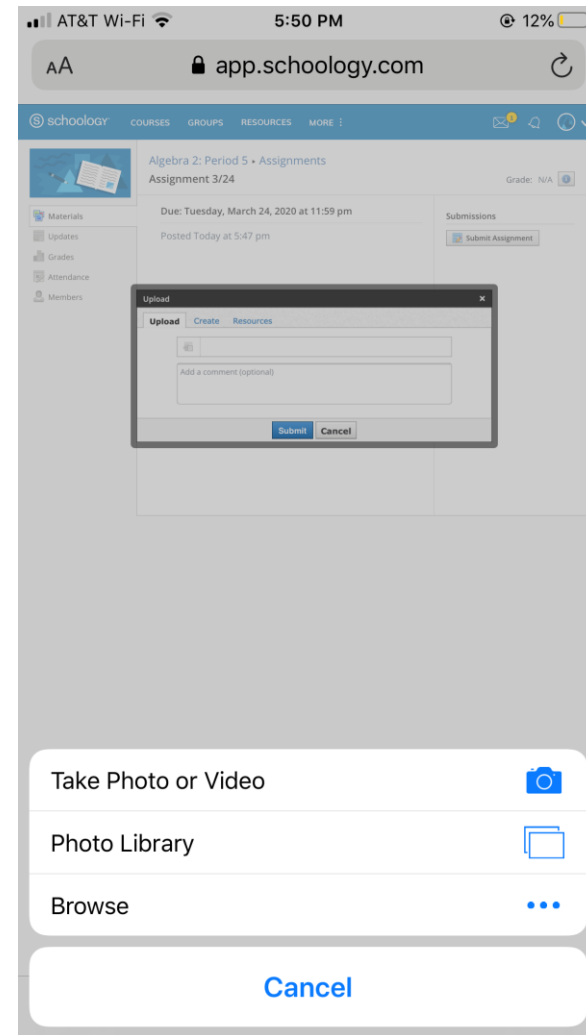
1. Take a picture of your assignment.
2. After finding the assignment on Schoology, click on “Submit Assignment”



3. Click on “File”



4. Go to your gallery and find your picture.



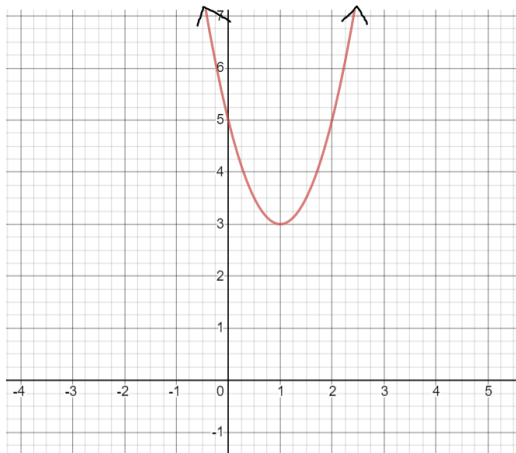
5. Click on “Submit”

Before completing the assignment, make sure you review the Distance Learning Resources folder on Schoology.

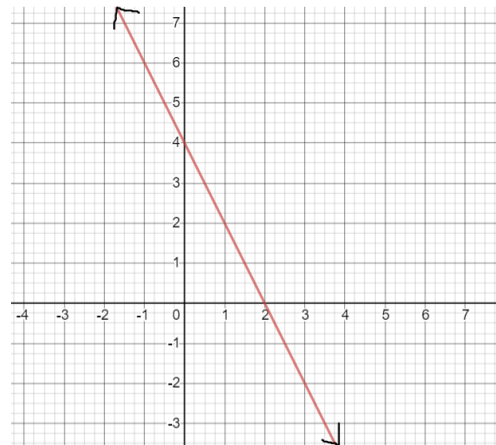
Assignment 4/20

State the domain and range for each graph as an inequality and in interval notation.

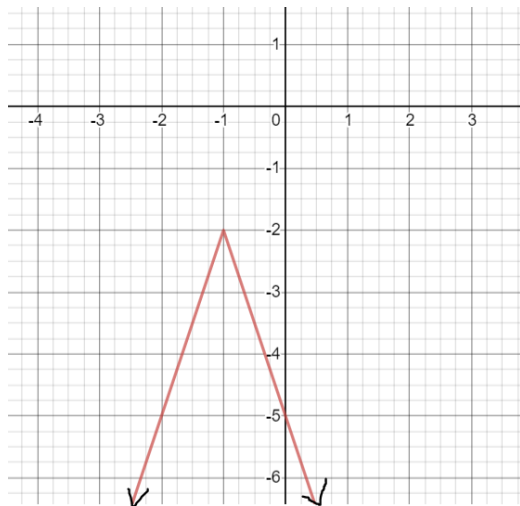
1.



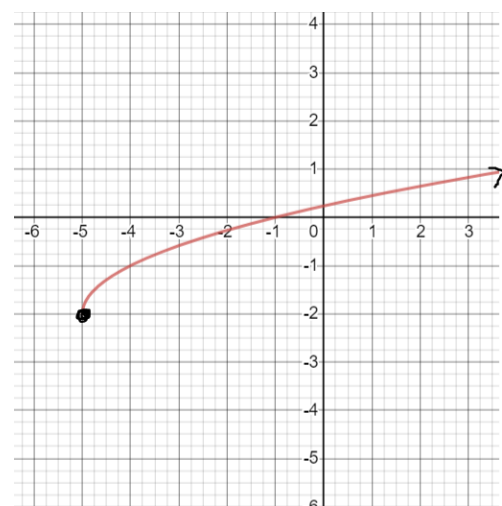
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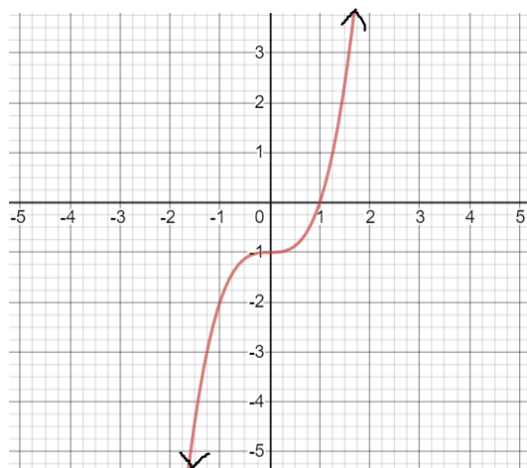
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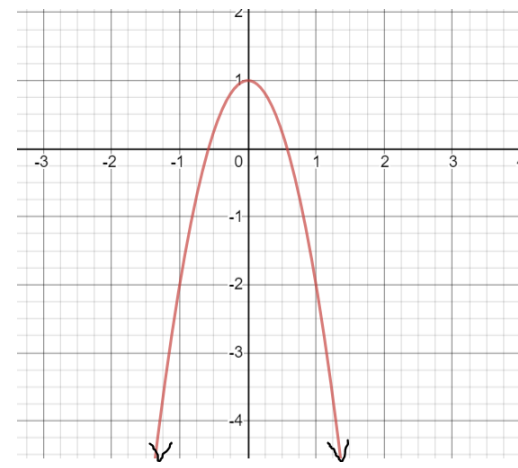
5.



3.



6.



7. In your own words, explain how you determine the domain and range of a function.

Assignment 2/21: Factoring

Directions: Factor each polynomial completely.

Factoring out a greatest common factor

1. $4x^2 + 10x$
2. $-9x^2 + 30x$
3. $10x - 20$
4. $16x^4 + 20x^2$

Factor each trinomial.

5. $x^2 + 10x + 21$
6. $x^2 - 8x + 15$
7. $x^2 + 6x - 16$

Factor each trinomial.

8. $2x^2 + 9x + 9$
9. $4x^2 + 21x + 5$
10. $5x^2 + 12x + 4$
11. $6x^2 - x - 2$

Factor by grouping.

12. $2x^2 + 6x + 5x + 15$
13. $3x^3 + 3x^2 = 5x + 5$

Factor.

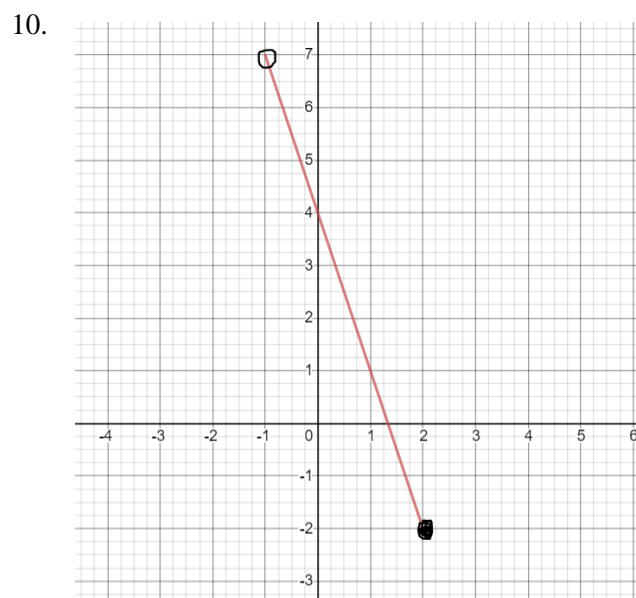
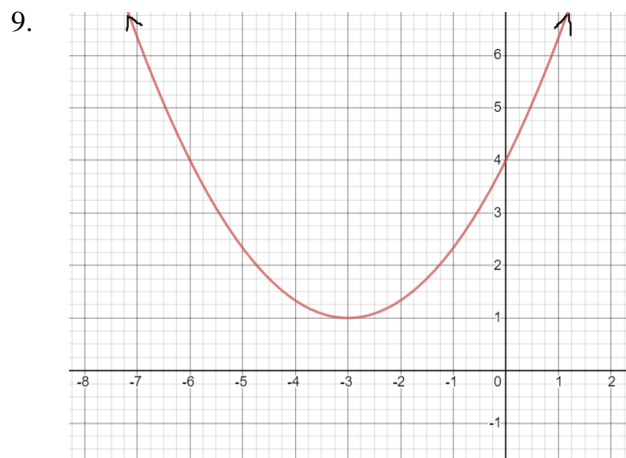
14. $2x^2 + 14x + 42$
15. $4x^2 - 11x + 6$

Assignment 2/22

Solve each quadratic equation by factoring.

1. $4x^2 + 12x = 0$
2. $x^2 + 8x + 12 = 0$
3. $2x^2 + 11x - 6$
4. $x^2 - 8x + 15 = 0$
5. $6x^2 - 22x = 0$
6. $5x^2 + 11x + 2 = 0$
7. $x^2 - 2x - 80 = 0$
8. $3x^2 - 10x + 8 = 0$

State the domain and range of each graph.



Assignment 4/23: Solving Quadratics by Taking Square Roots

Steps:

- Isolate the x^2
- Take the square root of both sides of the equation
- Simplify the radical if possible.

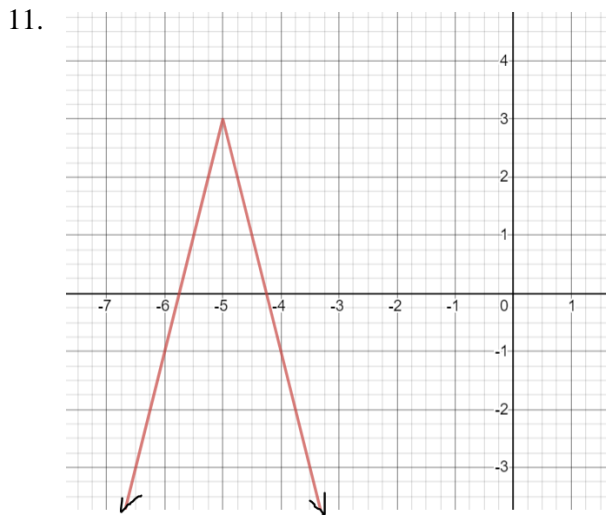
Directions: Solve each quadratic equation by taking square roots. Remember, solutions can be imaginary.

- $4x^2 - 12 = 0$
- $x^2 + 8 = 28$
- $6x^2 + 10 = 46$
- $5x^2 - 12 = 0$
- $2x^2 + 12x = 0$
- $3x^2 + 60x = 0$
- $3x^2 - 4 = -6$
- $3x^2 - 5 = -10$

Solve each quadratic equation by factoring.

- $6x^2 - 14x = 0$
- $4x^2 - 33x + 8 = 0$

State the domain and range of each function.



Assignment 4/24

Solving Quadratics by Completing the Square

1. $x^2 + 6x + 7 = 0$
2. $x^2 + 10x - 5 = 0$
3. $x^2 + 8x - 8 = 0$
4. $x^2 - 12x = 4$
5. $2x^2 + 12x + 8 = 0$
6. $4x^2 + 8x + 20 = 0$

Solving Quadratics Using any Method

7. $x^2 + 10x + 24 = 0$
8. $x^2 - 6x - 9 = 0$
9. $4x^2 - 12 = 0$
10. $6x^2 - 10x = 0$

State the domain and range of each function.

