Heritage High School – Distance Learning Mr. Leong's Algebra 1 Assignment Packet April 13 – April 17				
Due Date:	Monday, April 20 by 9:00am <i>Late work will not be accepted</i>			
Notes:	Included in this packet are some note taking templates. Those with internet access can complete the notes as you watch the YouTube videos linked below. - Graphing Quadratic Functions - Identifying Key Features of a Parabola			
Videos:	Videos for the notes: https://youtu.be/jCocvB3a7D8 https://youtu.be/r994GuLaCrY			
	Additional videos on graphing quadratic functions: <u>https://youtu.be/BGz3pkoGPag</u> <u>https://youtu.be/Cn1aFaxRyeU</u> <u>https://youtu.be/MDppAkE7UOs</u> <u>https://youtu.be/utE3aflj-XM</u>			
	Additional videos on identifying key features of a parabola: https://youtu.be/UVWTK8P86to https://youtu.be/VubsLXqjXhE			
Tools:	Check out this Excel based tool created by Mr. Weinert <u>https://ca01001129.schoolwires.net/Page/15726</u>			
Reading:	Textbook p.420-422, 426-427, 432-434			
Exercises:	Textbook p.470 #1-12 <i>Please submit your answers through Clever and the Big Ideas Math site.</i> <i>Those without internet access may submit paper copies to the main office.</i>			
Contact:	leongc@luhsd.net 925.634.0037 ext. 6305 Remind @fnctn Zoom office hours (TBA)			

Accessing Big Ideas Through Clever

The preferred method of completing assignments is electronically through Clever.

To access your assignments:

- Go to "clever.com/in/luhsd"
- Log in using your username and password as your student ID number
- Scroll down to "Math" where you will see the Big Ideas Math logo, click on "Big Ideas Math"
- If you are taking multiple math classes, you may need to select the book for the course you are working
- In the middle there is a tab that says "Assignments," click on "Assignments"



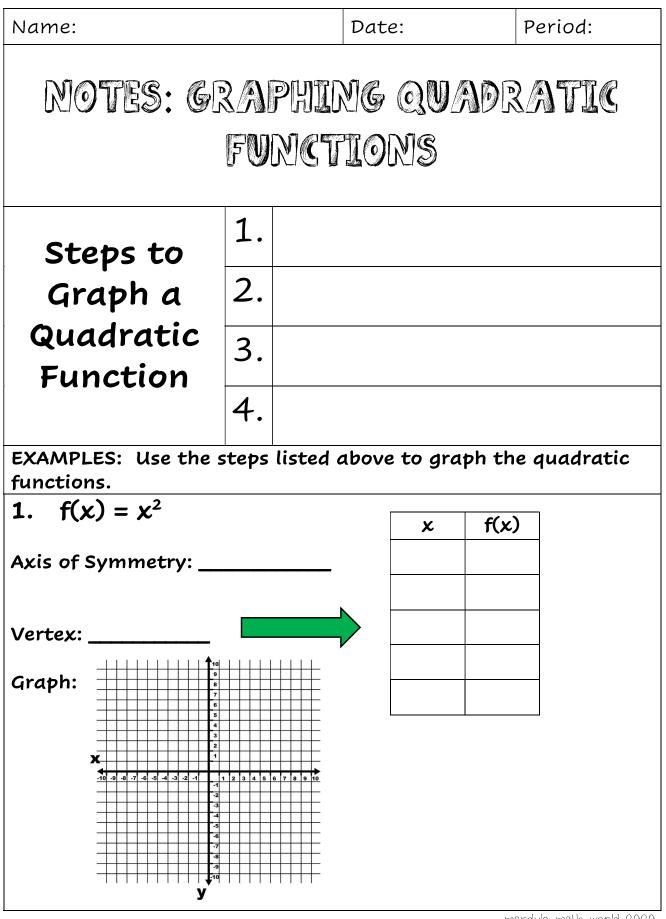
- Choose an assignment to work on from the list. Click the pencil/enter to start the assignment.
- **WARNING**!!!! Clever does NOT automatically save and submit progress. Once you finish the last problem in an assignment, be sure to <u>click your name in the top-right corner and click "Submit"</u> to turn your assignment in.

To access online tutorial videos:

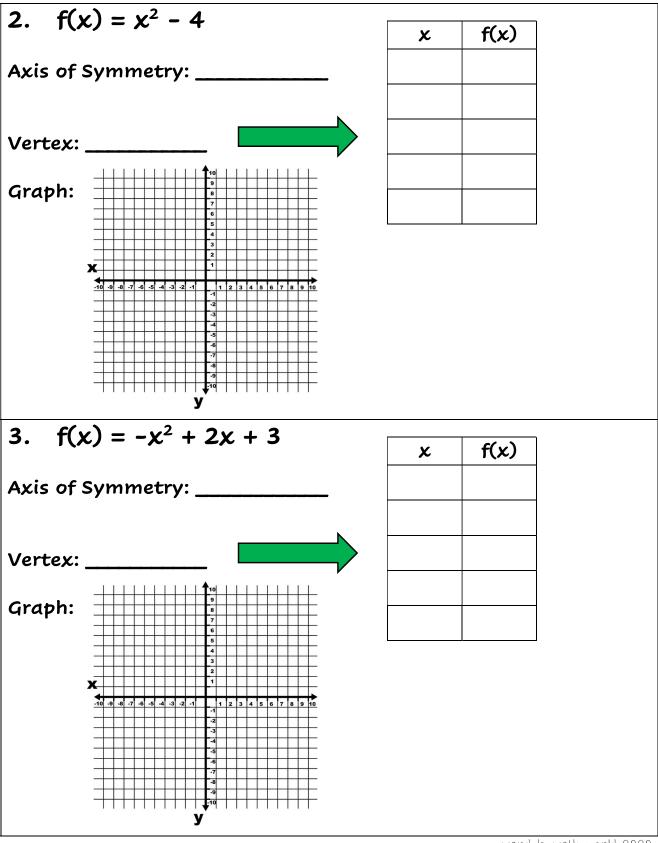
- Go to "clever.com/in/luhsd"
- Log in using your username and password as your student ID number
- Scroll down to "Math" where you will see the Big Ideas Math logo, click on "Big Ideas Math"
- If you are taking multiple math classes, you may need to select the book for the course you are working
- Click on "Student Dynamic ebook"
- You can use the "Contents" tab on the left to get to the section you wish to view
- In the section you will see examples that look similar to the below pic:

DOKING FOR TRUCTURE You can also use function rules to identify functions. The only variable term A f is an x -term, so it is an absolute value function.	Identifying a Function Function family to which f belongs. Compare the graph of f to the graph of its parent function. Solution The graph of f is V-shaped, so f is an absolute value function. The graph of f is Syshaped, so f is an absolute value function. The graph of f is parent absolute value function. The graph of the parent absolute value function. The domain of each function is all real numbers, but the range of f is $y \ge 1$ and the range of the	amily
	but the range of $f(y) \ge 1$ and the range of the parent absolute value function is $y \ge 0$. Monitorina Proaress (1) Help in English	and Spanish at BieldeasMath.com

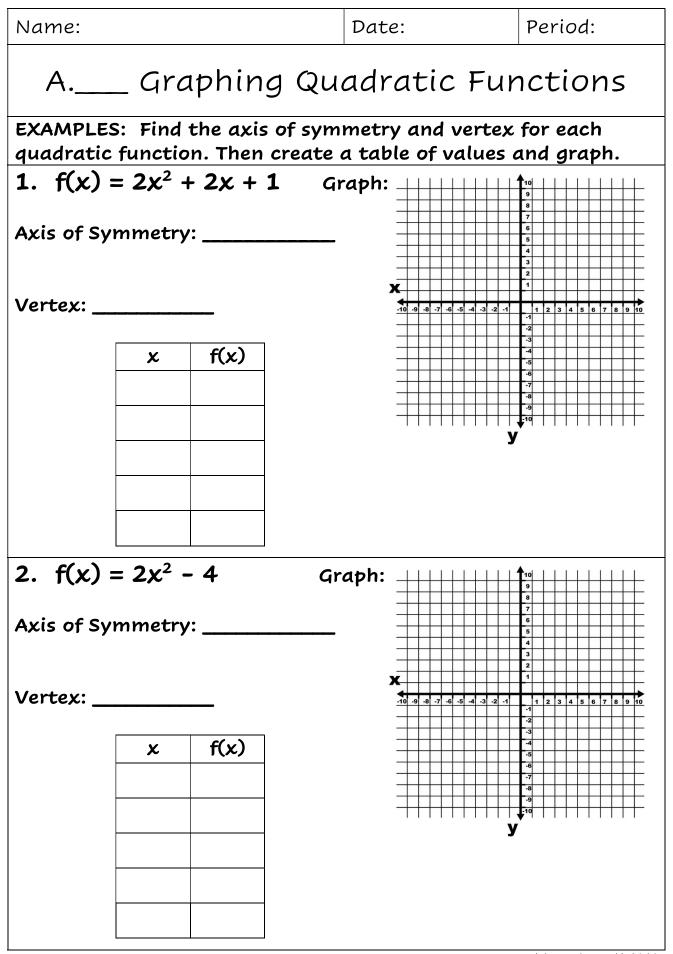
The blue circle with triangle indicates there is a tutorial video for that example. Click the icon to view.



mandy's math world 2020

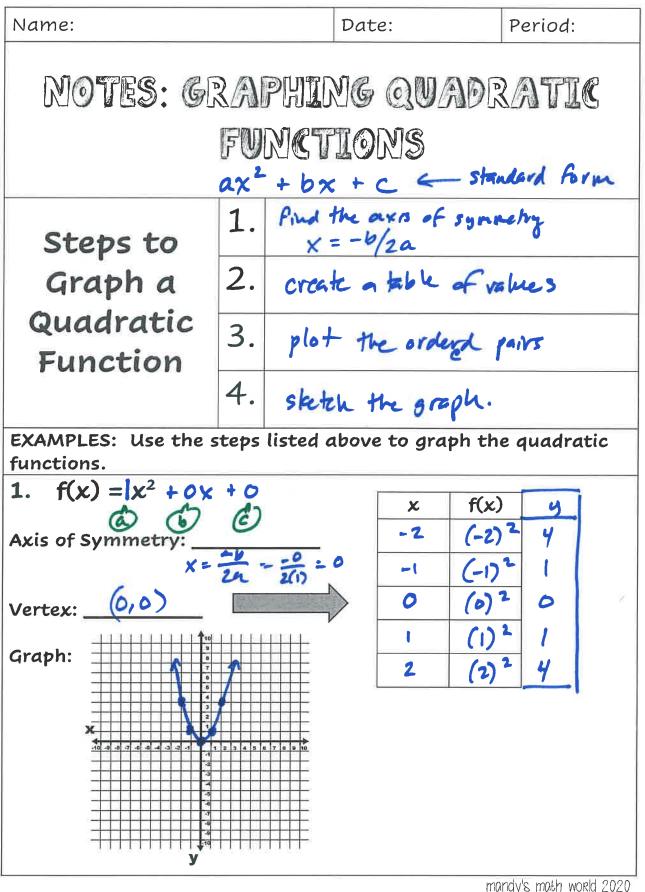


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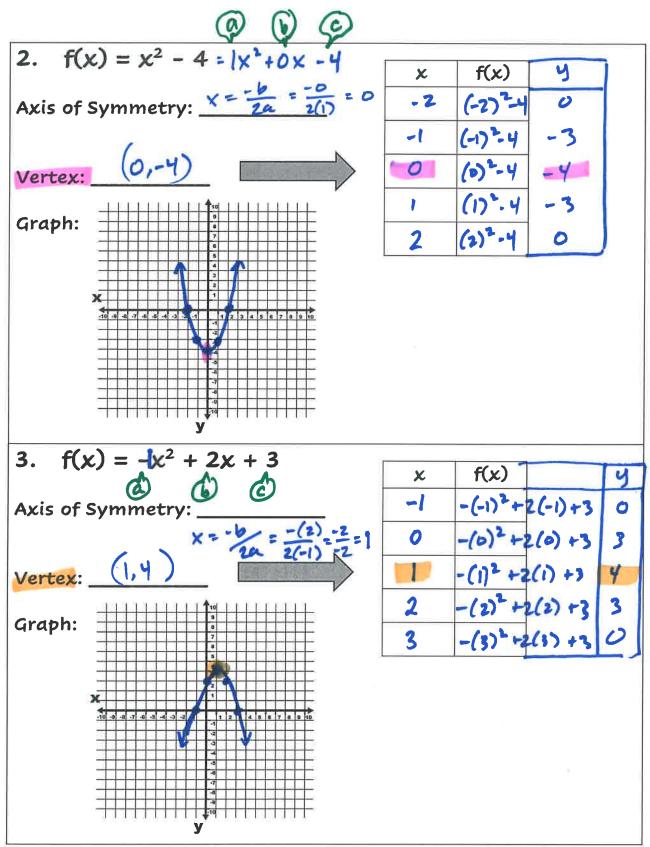


Name:		Date:	Period:			
Not	tes: Identifying Key Fe	eatures of	a Parabola			
	AXIS OF SYMMETRY:					
	VERTEX:					
Vocabulary	X-INTERCEPT(S):					
qp	Y-INTERCEPT:					
	DOMAIN:					
	Range:					
EXAMPLES: Graph the function then identify the parabola's key features.						
1. $f(x) = x^2 + 2$						
Axis of Symmetry:						
Vertex:						
×	Y Y					
	toncont(a)					
x-intercept(s): y-intercept:						
Domain:						
Ran	ge:					

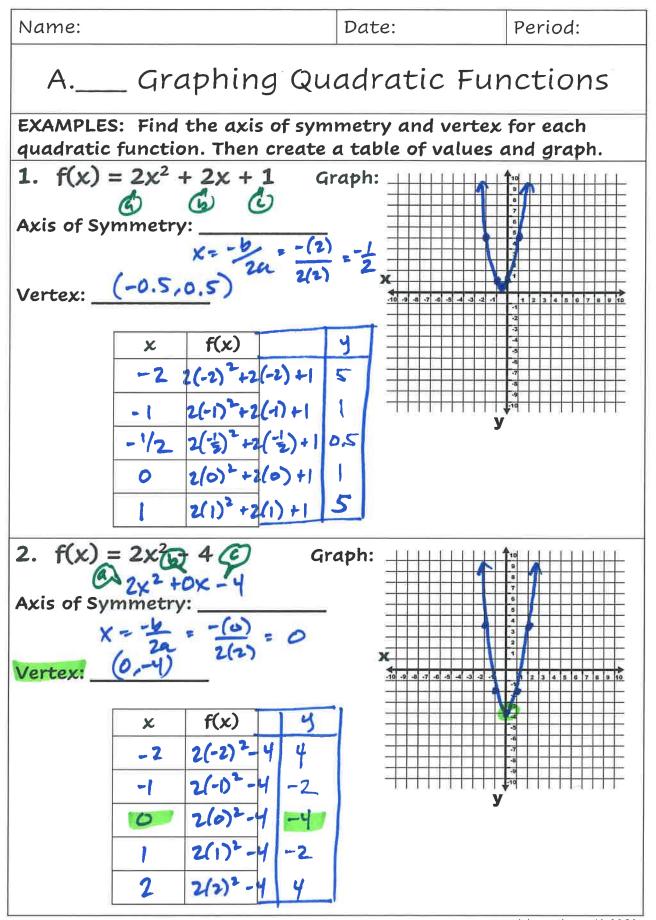
2. $f(x) = x^2 + 2x + 1$						
Axis of Symmetry:						
Vertex:						
×y						
x-intercept(s):						
y-intercept:						
Domain:						
Range:						
You Try!!						
$f(x) = -x^2 - 4x - 4$						
Avia of Summotion						
Axis of Symmetry:						
Vertex:						
X Y						
x-intercept(s):						
y-intercept:						
/						
Domain:						
Range:						
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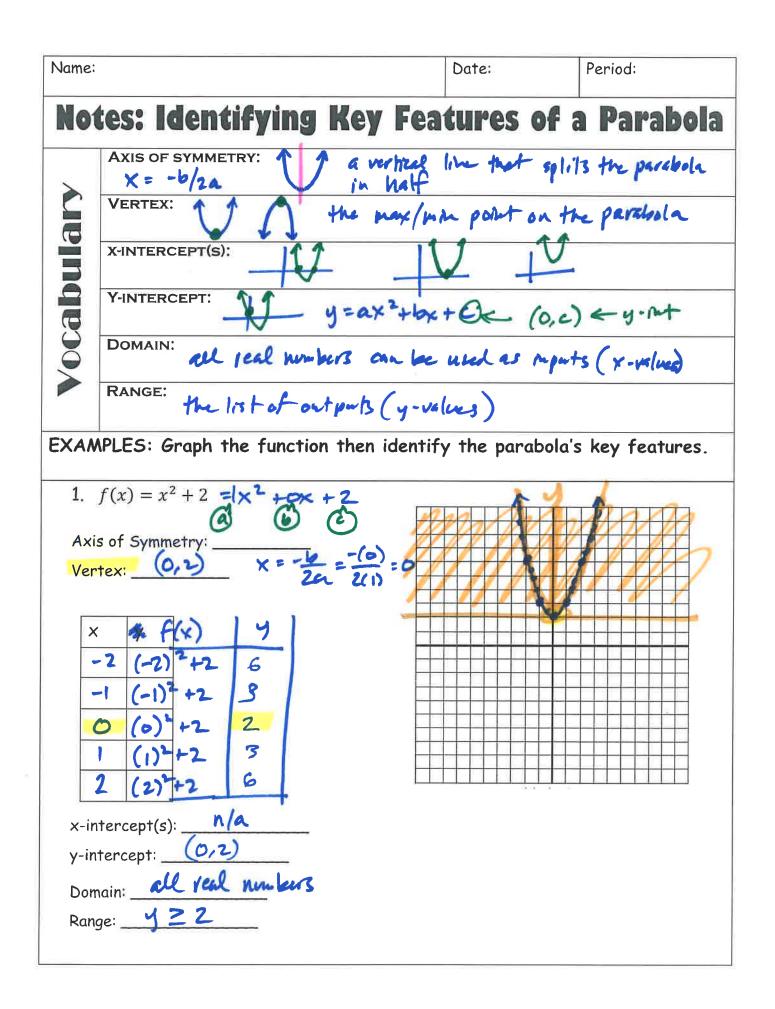
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 $\frac{2}{2} f(x) = x^2 + 2x + 1$ Axis of Symmetry: $\frac{x}{2a} = \frac{-b}{2a} = \frac{-(2)}{2(1)} = -$ Vertex: (-1,0) X У -3 (-3) +2(-3)+1 **2**.2 (-2)²+2(-2)+1 1 (-1) +2(-1)+1 0 -1 (0)=+2(0)+1-1 0 4 $\frac{1}{(1)^{2}} + 2(1) + 1$ x-intercept(s): (-1,0) y-intercept: ____(0,1 Domain: all real numbers Range: <u>920</u> You Try!! し $f(x) = -\frac{1}{x^2} - 4x - 4$ Axis of Symmetry: $x = \frac{-b}{2a} = \frac{-(-4)}{2(-1)}$ Vertex: (-2,0) X -4 -(-4)2-4(-4)-4 × $\frac{-3}{-2} - \frac{(-3)^{2} - 4(-3) - 4}{-1} = 1$ -(-1)2-4(-1)-4 -1 -(0)2-4(0)-4 -4 -1 x-intercept(s): <u>(2,0)</u> y-intercept: <u>(0,-4)</u> Domain: $\underline{\mathcal{A}} \operatorname{Cal} \operatorname{numbers}$ Range: $\underline{Y} \leq O$