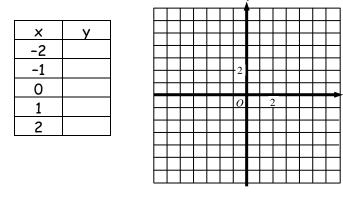
Quadratics - Day 4 Notes

Name	
Date	Per

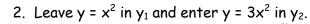
The parent function for all Quadratic Equations is $y = x^2$. (where a = 1, b = 0, and c = 0)

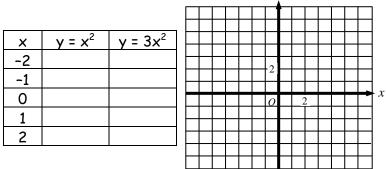
1. Graph the parent function in y_1 of your calculator. Then complete the table and sketch the graph of the function.

х



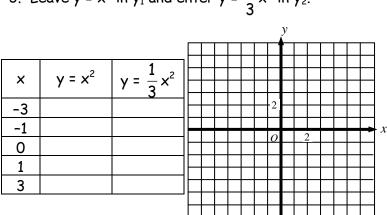
- a. What is the vertex?
- b. Is it a maximum or minimum point?
- c. What are the roots of the function?
- d. What is the line of symmetry?





3. Leave y = x^2 in y₁ and enter y = $\frac{1}{3}x^2$ in y₂.

- a. What is the vertex?
- b. Is it a maximum or minimum point?
- c. What are the roots of the function?
- d. What is the line of symmetry?

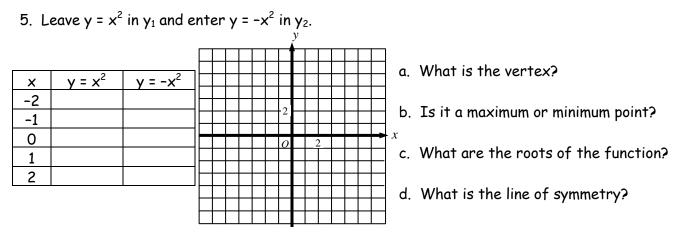


- a. What is the vertex?
- b. Is it a maximum or minimum point?
- , c. What are the roots of the function?
- d. What is the line of symmetry?

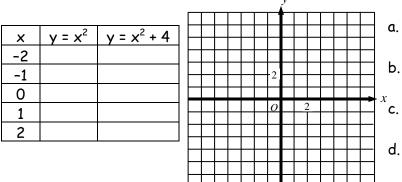
4. What affect does the "a" value have on the graph?

Quadratics - Day 4 Notes

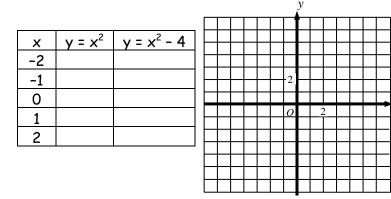
Name	
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- 6. What affect does the sign have on the "a" value?
- 7. Leave $y = x^2$ in y_1 and enter $y = x^2 + 4$ in y_2 .



- a. What is the vertex?
- b. Is it a maximum or minimum point?
- ^xc. What are the roots of the function?
- d. What is the line of symmetry?
- 8. Leave $y = x^2$ in y_1 and enter $y = x^2 4$ in y_2 .



- a. What is the vertex?
- b. Is it a maximum or minimum point?
- ^xc. What are the roots of the function?
- d. What is the line of symmetry?
- 9. What affect does the "c" have on the graph?