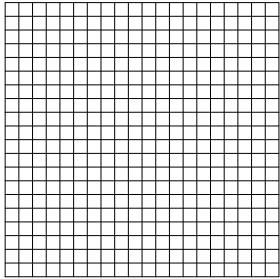


Graphing Overview Homework:

Graph the following problems. Lines require 3 points and all other functions 5 points.

1) Symbolic Rule (write the equation) 2) Table of Values 3) Graph 4) Verbal Description -State the slope as a reduced fraction, and y-intercept as an ordered pair for the lines. Give the vertex as an ordered pair for the parabolas. Give the y-intercept for the exponential functions. Tell me if the graph is increasing or decreasing as you read it left to right.

1. $y = 2x + 1$	2. $y = -2x + 1$	3. $4x - 3y = 12$	On the same graph, 4. $y = \frac{2}{3}x - 1$ $y = -\frac{2}{3}x - 1$ Where do the graphs intersect?
5. $y = x^2 + 2$	6. $y = (x - 2)^2$	7. $y = \frac{1}{4}x^2$	8. $y = 4x^2$
9. $y = -x^2 + 2$	10. Describe how problems 5, 6, and 9 are similar and how they are different.	11. $y = 3^x$	12. $y = \left(\frac{1}{3}\right)^x$
For problems 13-15, solve the linear system of equations by graphing.	13. $3x - 2y = 6$ $x - y = 1$	14. $y = \frac{1}{2}x$ $y = -\frac{3}{4}x + 5$	15. $x + y = 5$ $3x - y = 3$

Symbolic Rule	Table												
	<table border="1"><thead><tr><th data-bbox="1060 240 1486 284">x</th><th data-bbox="1491 240 1906 284">y</th></tr></thead><tbody><tr><td data-bbox="1060 284 1486 328"></td><td data-bbox="1491 284 1906 328"></td></tr><tr><td data-bbox="1060 328 1486 371"></td><td data-bbox="1491 328 1906 371"></td></tr><tr><td data-bbox="1060 371 1486 415"></td><td data-bbox="1491 371 1906 415"></td></tr><tr><td data-bbox="1060 415 1486 459"></td><td data-bbox="1491 415 1906 459"></td></tr><tr><td data-bbox="1060 459 1486 503"></td><td data-bbox="1491 459 1906 503"></td></tr></tbody></table>	x	y										
x	y												
Graph	Verbal Description												
													

Graph problems 13-15

Symbolic Rule	Table																
	<p>Line 1</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="width: 50%; text-align: center; padding: 5px;">x</th> <th style="width: 50%; text-align: center; padding: 5px;">y</th> </tr> </thead> <tbody> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> </tbody> </table> <p>Line 2</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center; padding: 5px;">x</th> <th style="width: 50%; text-align: center; padding: 5px;">y</th> </tr> </thead> <tbody> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> </tbody> </table>	x	y							x	y						
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Graph	Verbal Description: Slope, Intercepts, Solution																
