GPS Algebra

**Animals Gone Wild Equations Project**

**TERMS USED IN DESCRIPTION**

*Graph Animal*: The graph paper that you drew your original animal on

*Copied Animal*: The copy of your animal that Ms. Turbiville made for you on a white sheet of paper

*Equation Sheet*: The sheet of paper that shows all your work and final equations for the 8 lines you are finding the equation of



You have an ***AMAZING*** animal drawn on the Cartesian plane (aka the graph paper). You are now going to find the following information of your animal!

*First Thing to do*: Draw a *x*-and *y*-axis on ***just*** your graph animal

**Find the following…**

1. Write an equation for two horizontal lines (*y=#*).
2. Write an equation for two vertical lines (*x=#*).
3. Write an equation for two lines showing a positive slope. (rising in Quadrant I)
4. Write an equation for two lines showing a negative slope. (rising in Quadrant II)

When you are finding the equation of the lines with positive and negative slope you are going to identify two points on each line (do one at a time). Then find the slope between the two points. Then use point-slope) form$ y-y\_{1}=m(x-x\_{1}$ to find the equation and write it in slope-intercept form. Look at the board for Ms. Turbiville’s example.

Place your equations (8 total) and your work for positive/negative slope lines on a separate sheet of paper (notebook, graph, or computer paper). Provide some way for the equation to be easily connected to the line on your graph animal

**JUST COLOR YOUR COPIED ANIMAL—IT IS THERE TO LOOK PRETTY**

Place your graph animal, copied animal and equation sheet on a poster board. Attach the rubric on the back of this sheet to the ***BACK*** of your poster.

**Due Date:** Friday, October 28, 2011 at the ***beginning*** of your class period. 10 points will be taken off for each day it is late.

Use the rubric to help guide you along. If you want a 100 get all 7s and the big 16! This is worth as much as a test grade…do not forget about this ☺

If you have questions, see Ms. Turbiville at least before the day it is due!

**Animals Gone Wild Equations Project**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **7** | **5** | **3** | **1** |
| Equation for horizontal line | Included and correct. Labeled to easy to connect equation to graph.  | Included and correct but slightly difficult to connect to graph or simply error made. | Included but incorrect. Easily to connect equation to graph.  | Included but incorrect. Difficult to connect to graph OR not included.  |
| Equation for horizontal line |  |  |  |  |
| Equation for vertical line |  |  |  |  |
| Equation for vertical line |  |  |  |  |
| Equation for line with positive slope |  |  |  |  |
| Equation for line with positive slope |  |  |  |  |
| Equation for line with negative slope |  |  |  |  |
| Equation for line with negative slope |  |  |  |  |
| Had Rough Draft of Animal |  |  |  |  |
| x-and-y axis is drawn on Graph Animal ONLY |  |  |  |  |
| The drawing is somewhat related to the animal kingdom |  |  |  |  |
| Your copied animal is colorful and beautiful to look at |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **16** | **7.5** | **5** | **2.5** |
| Neatness and Presentation | Graph Animal, Copied Animal and Equation sheet are together on a poster in a neat and orderly way. Lines are straight, precise, and clear and it is easy to connect each line to its equation.  | Graph Animal, Copied Animal and Equation sheet are together on a poster in a neat and orderly way. Some lines are not straight or clear.  | Graph Animal, Copied Animal and Equation sheet are together on a poster in a neat and orderly way. Most lines are not straight or clear. | Graph Animal, Copied Animal and Equation sheet are not together on a poster in a neat and orderly way. Most lines are not straight or clear. |

Additional Comments from Ms. Turbiville:

Total = $\frac{}{100}= \%$