1. Draw an animal using only straight lines and all endpoints must be on a point.

2. Find 4 lines with positive slopes. Trace them with the color:\_\_\_\_\_\_\_\_\_\_ and label the lines 1, 2, 3 & 4

3. Find 4 lines with negative slopes. Trace them with the color:\_\_\_\_\_\_\_\_\_\_ and label the lines 5, 6, 7 & 8

4. Find one line with undefined slope. Trace it with the color \_\_\_\_\_\_\_\_\_\_\_ and label it 9

5. Find one line with zero slope. Trace it with the color \_\_\_\_\_\_\_\_\_\_\_ and label it 10

6. Follow the directions on the next page for what you will do with each line.



Please complete the SLOPE/EQUATION column. Leave all other columns blank.

|  |  |  |  |
| --- | --- | --- | --- |
| **Graph** | **Slope or equation** | **Value** | **Points Earned** |
| Line 1 | use What is the slope of line 1?slope = $\frac{rise}{run}$ | 5 |  |
| Line 2 | Use What is the slope of line 2?m = $\frac{y\_{2}-y\_{1}}{x\_{2}-x\_{1}}$ | 10 |  |
| Line 3 | Use STAT What is the equation of line 3?(pick any 2 points on the line) | 5 |  |
| Line 4 | Use What is the equation in slope intercept form for line 4? m = $\frac{y\_{2}-y\_{1}}{x\_{2}-x\_{1}}$ (& choose a point and usePoint-Slope form)The solve for y | 15 |  |
| Line 5 | use What is the slope of line 5?slope = $\frac{rise}{run}$ | 5 |  |
| Line 6 | Use What is the slope of line 6?m = $\frac{y\_{2}-y\_{1}}{x\_{2}-x\_{1}}$ | 10 |  |
| Line 7 | Use STAT What is the equation of line 7?(pick any 2 points on the line) | 5 |  |
| Line 8 | Use What is the equation in slope intercept form for line 8? m = $\frac{y\_{2}-y\_{1}}{x\_{2}-x\_{1}}$ (& choose a point and usePoint-Slope form)The solve for y | 15 |  |
| Line 9 | Write the Equation for line 9: Slope:equation & slope  | 10 |  |
| Line 10 | Write the Equation for line 10: Slope:equation & slope  | 10 |  |
| Total | 10 points for neat, correct graphs | +  |  |

Conclusions

1. What did you learn from doing this project?

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2. How can you relate this project to real life?

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3. What difficulties did you face, and how did you solve them?

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4. How did you come up with the idea of the picture/design?

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Practice Sheet:

