**Math 132 Project #2**

For the second project you must take 12 pictures from the real world for each of the objects listed below, you may find up to four of them on the internet or hand draw them, but at least 8 of the pictures need to be taken by yourself. For each object you must state the definition of the figure and then explain why the picture you took represents the object labeled. Also make sure to answer all questions that go along with each figure. The pictures can be labeled separately on a poster if you choose to do so and then you can answer all questions in a separate write up, otherwise you may simply just put the pictures individually on a piece of paper with all definitions and answers under the pictures.

**Figures (Choose 12 of the 14)**

1. Triangle
2. What type of triangle is it? (Name by sides and angles)
3. Measure the sides using a tape measure to justify your answer show measurements the measurements in the problem.
4. Regular Polygon
5. What type of regular polygon is it?
6. What is the measure of one interior angle in the polygon?
7. What is the measure of one exterior angle in the polygon?
8. Skew Lines
9. Why in reality are these not really skew lines?
10. Perpendicular Lines
11. What type of angle do these lines form?
12. If they are parallel what do you know about the slopes of these lines?
13. Parallel Planes
a) Name a place where you could see an example of over 15 parallel planes in the real world.
14. Rectangular Prism
15. Use a ruler/tap measure to get the dimensions of the prism if applicable or simply approximate the dimensions. (Make sure to label units)
16. Approximate the volume and surface area of the given Prism.
17. Sphere
18. What would the approximate radius be? (Use a ruler/tape measure if applicable)
19. What is the approximate volume and surface area of the sphere?
20. Pyramid
21. What type of pyramid is shown?
22. What is the approximate height of the pyramid?
23. What is the approximate Volume of the pyramid?
24. Cone
25. What is the approximate radius of the base of the come?
26. What is the approximate volume of the cone?
27. What is the approximate surface area of the cone?
28. Circle
29. What is the approximate diameter of the circle?
30. What is the approximate circumference of the circle?
31. What is the approximate area of the circle?
32. Parallel Lines
33. In the picture which object(s) would represent the plane in which the two parallel lines lie?
34. What do you know about the slopes of these two parallel lines?
35. Concave Polygon
36. What type of concave polygon is this a picture of?
37. In general how could you find the area of a concave polygon?
38. Cylinder
39. What is the approximate height of the cylinder?
40. What is the approximate radius for the base(s)?
41. What is the approximate volume for the cylinder?
42. Vertical Angles
43. What is the approximate measure for the vertical angles you found?
44. What do you know about the two angle measures in general?
45. What would be the measure of these angles supplements?