1. Find the circumference length of an ellipse:

**X^2 + y^2 = 1**

**4 9**

1. Find the equation of tangent line at (x=2, y=13) of the following equation:

**Y = x^3 + x^2 +1**

1. Find the slope then determine the equation of tangent line.
2. Define ***f* = x^3 + x^2 + 1 – y**

Use *f* to determine the normal vector then use “vector dot product” method to find the tangent line equation.