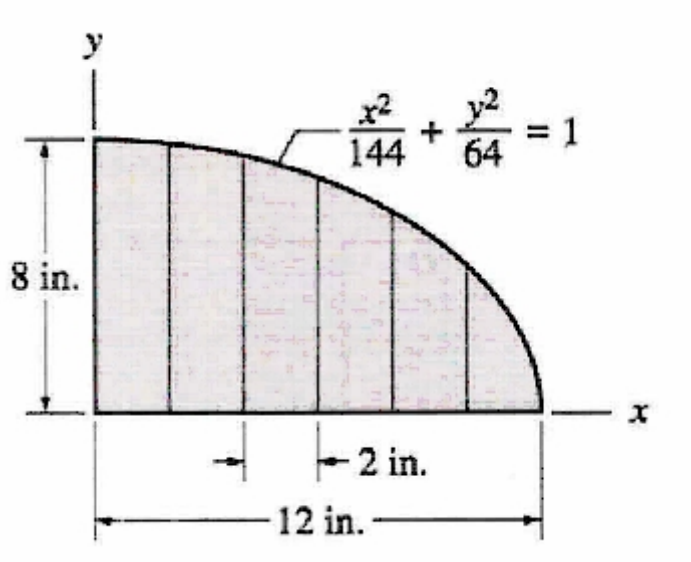
Computer Problem #3

Problem 9.33: Calculate the moments of inertia (I_x and I_y) about the x and y axes for the quarter ellipse. Use numerical integration with x = 2.



Problem C: Using numerical integration, calculate the moments of inertia (I_x and I_y) about the x and y axes for the plane region below the line subscribed by $y = x + x^3$. $0 \leq x \leq 5$.

Problem D: Using numerical integration, calculate the moments of inertia (I_x and I_y) about the x and y axes for the plane region above the line subscribed by $y = x + x^3$. $0 \leq x \leq 5$. The upper boundary is located at y = 130 when x = 5.