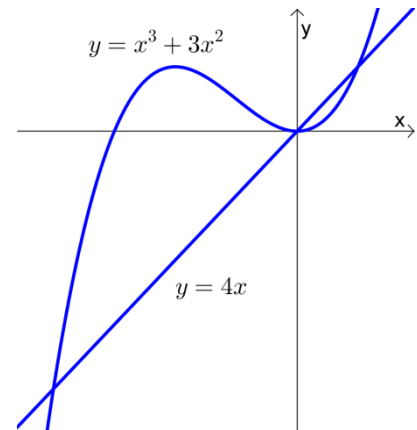


1. Find the area of the region enclosed by the line $y = 4x$ and the curve $y = x^3 + 3x^2$.



2. Find the area of the region enclosed by the curves $x - y^2 = 0$ and $x + 2y^2 = 3$. (Hint: Integrate in y direction.)