Problem statement Suppose that A, B, C, and D are constants and f is the cubic polynomial $f(x) = Ax^3 + Bx^2 + Cx + D$. Suppose also that the tangent line to $y = f(x)$ at $x = 0$ is $y = x$ and the tangent line at $x = 2$ is given by $y = 2x - 3$. Find the values of A, B, C, and D. Then sketch the graph of $y = f(x)$ and the two tangent lines for $-2 \leq x \leq 4$.