Exercise 1 (4 points) Use Newton’s method to approximate $\sqrt{3}$. Find the first three terms if $x_1 = 1$

Exercise 2 (6 points) If $F(x) = (ax + b)\ln(x) + dx$ is an antiderivative of $f(x) = \ln(x)$, find the values of $a, b, d$ and the general antiderivative of $f(x) = \ln(x)$.
Exercise 1 (4 points) Use Newton’s method to approximate $\sqrt{5}$. Find the first three terms if $x_1 = 2$

Exercise 2 (6 points) If $F(x) = (ax^2 + bx + d)e^x$ is an antiderivative of $f(x) = x^2e^x$, find the values of $a, b, d$ and the general antiderivative of $f(x) = x^2e^x$. 