(1) Find an equation of the line tangent to the graph of

\[ F(x) = \int_1^x \sqrt{t^2 + 7} \, dt \]

at \( x = 1 \).
(2) Evaluate the following integral using the fundamental theorem of calculus:

\[ \int_{1}^{4} (5x + x^{3/2}) \, dx \]