Problem. Consider the function $f(x)=\sqrt{-2+\sqrt{5+x^{2}}}$.
(a) What is the domain of $f(x)$ ?
(b) Is $f(x)$ differentiable at every point of its domain? If it is not differentiable at some points, explain why.
(c) Compute the equation of the tangent line to $f(x)$ at $x=2$. Hint: you don't need to simply the formula for $f^{\prime}(x)$ !

