Calculus Finding the Derivative

1. Find the slope of the tangent to $y=\sqrt{x^{2}-25}$ at $x=13$.

2. Determine the equation of the tangent to $y=\frac{5}{x-4}$ at $x=-6$.

3. Find the equation of the tangent line to $y=\frac{-4}{x^{2}+1}$ at the point (1, $-$2).

4. Find the equation of the tangent line and the normal line to $f(x)=\sqrt{5-x}$ at the point (1, 2).