1. Use the limit definition to find f’(x) for f(x) = . Show all work
2. Write the limit definition of derivative: f’(x) = lim
3. For the function f(x) =, use the limit definition of derivative to find the slope of the tangent line to the function at x=4.

Show all steps for full credit.

(b) Find the equation of the tangent line to f(x) at x=4. Show all work.