Directions: Show all steps (within reason). Simplify your answer.

1. Use a limit definition of the derivative to find the derivative of the function $f(x) = \dfrac{1}{2x+1}$.

Directions: Show all steps (within reason). Simplify your answer.

1. Use a limit definition of the derivative to find the derivative of the function $f(x) = \sqrt{3x+1}$.