Take fifteen minutes to complete this quiz. Please show all your work, and write your name on the front and back of the paper before turning it in.

1. (4 pts) Consider the function $f(x)=\frac{x+1}{x^{2}+2 x+3}$. On which intervals is $f(x)$ continuous?
2. ( 5 pts ) Consider the function $g(x)=x^{2}-e^{x}$. Write an equation (in any form you like) for the line tangent to the graph of $g(x)$ through the point $(0,-1)$.
3. (1 pt) Evaluate $\lim _{x \rightarrow \infty} \frac{2 x}{3-x}$.
