## Quiz 2 SHOW ALL WORK

Sept 20, 2018
[10] 1.) Solve $t y^{\prime}+(t+1) y=t$

Answer: $\qquad$
[10] 2.) Suppose $\phi_{n}$ is defined by sucessive approximation where $y^{\prime}=\frac{2 t}{y+1}, y(0)=0$.

If $\phi_{1}(t)=t^{2}$, then $\phi_{2}(t)=$ $\qquad$

