Quiz 2 SHOW ALL WORK Sept 20, 2018

[10] 1.) Solve ty' + (t+1)y = t

Answer:_____

[10] 2.) Suppose ϕ_n is defined by successive approximation where $y' = \frac{2t}{y+1}$, y(0) = 0.

If $\phi_1(t) = t^2$, then $\phi_2(t) =$ ______