

2. WE WRITE THE ODE AS

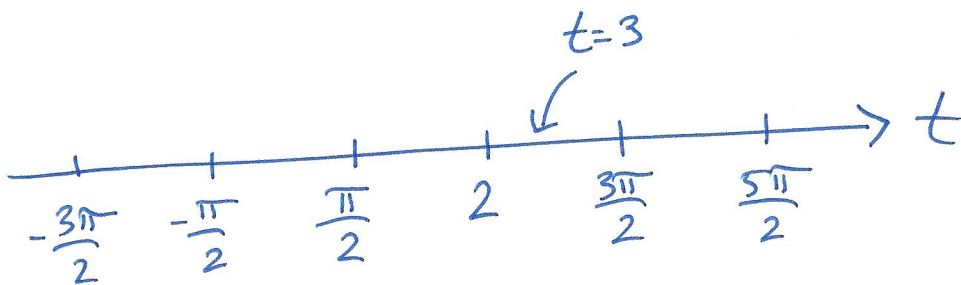
$$\frac{dy}{dt} - \frac{1}{2-t} y = \frac{\tan(t)}{2-t}$$

$$p(t) = -\frac{1}{2-t} = \frac{1}{t-2} \quad \text{DISCONT. AT } t=2$$

$$g(t) = \frac{\tan(t)}{2-t}$$

DISCONT. AT  $t=2$

AND  $t = \frac{k\pi}{2}$  FOR ODD  $k$



THE INTERVAL OF DEF'N IS  $2 < t < \frac{3\pi}{2}$