$$|w| = -t + 1 + |n|t - 1| + C$$

$$|w| = C = |t - 1|$$

$$|w| = C = |t - 1|$$

$$|w| = C = |t - 1|$$

$$|w| = C = |v| = |v|$$

$$|w| = C = |v|$$

$$w = C e^{-t} (t-1)$$

· Integrate w to find V: (Integration by parts .. ew)

$$\int Ce^{-t}(t-1) = -Ce^{t}(t-1) + \int Ce^{t} dt$$

$$dv \qquad V = -Ce^{-t}(t-1) - (e^{-t} + D)$$

$$= -Ce^{-t}[(t-1)+1] + D$$

$$= -Ce^{-t}[(t-1)+1] + D$$

o We just need an independent solution from Y, so choose convenient values for Carl D. [I choose [ and O] multiple of et=7.