FORWARD:

æ

Fy(+, E) = Fy(0, t) exp | fy(1) | fy(t) = gt + x (1) = cyt + \$15 5 5y(t) + \$15 15y(1) &

HUTT BE MANTINGALE

=> Fo[Fg((,t)] = Tg(o,t) NUT 35 INTOTES

=> Fo [ ecph (5(+))] - 2 + \$161(u) = #[ e inf (+)]

+ fr(+) (-i) = [ exp ( fr(+))]

+ (-i) = 1 + (-i) = E[exp \ { } ] = E[exp \ (3) ] =

= exp (< ) [ [ eup ( ) ] =

= explose E[ expl \$363 5(1) + & 15(1) 9/]

⇒ +(4) = eius &(-iu & 52 + ± u2 62) By NHVM

 $e^{\zeta_{7}} \int \left(\beta_{7} \delta_{7}^{2} - \frac{1}{2} \delta_{7}^{2}\right) = 1$   $e^{\zeta_{7}} = \frac{2}{\lambda (\beta_{7} \delta_{7}^{2} - \frac{1}{2} \delta_{7}^{2})}$   $\zeta = -\log \left(\lambda (\beta_{7} \delta_{7}^{2} - \frac{1}{2} \delta_{7}^{2})\right)$ 

Thus applying the montingate constition:

fi (1) = - log(2 (\$3522 - 152)) + \$7626(1) + & VEV5(1) &