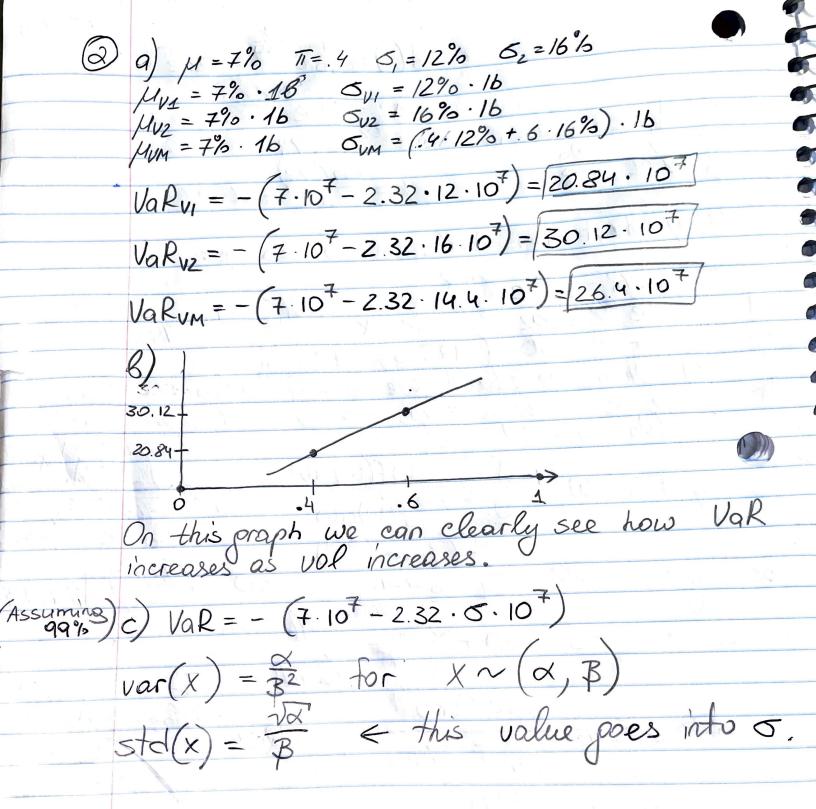
Val = 50 - x = 50 - 1.01 =  $f(x) = \frac{1}{50}e^{-\frac{x}{50}} = .02e^{-.02x}$ .02 = 1 - e · O2x  $e^{-02x} = .98$ K= (-02) = 1.01 6) Short flips tails, now we solve:  $e^{.98 = 1 - e^{.02x}}$   $e^{.02x} = .02$  =>  $x = \frac{l_0(.02)}{-.92} = 195.6$ Var = -50-(-195.6) = [145.6]

When we short we worn about the upside which flips tails and signs for wo and w.

Wo and W.

Wo-var  $wf(w)dw = w_0 - \frac{101}{500} = \frac{101}{5$  $for long: = 50 - \frac{1}{1 - e^{-1956}} = 50 - (\frac{101^2}{2}) = 49.49$   $for short: ES = 50 + \frac{1000}{1 - e^{-1956}} = \frac{1000}{1000} = \frac{1000}{10$  $= 50 + \frac{1956}{1956} = \frac{1}{1956} = \frac{1}{1$  $= 50 - \frac{\frac{\omega^{2}(1 - e^{-\lambda \omega})|_{19\%6}^{\infty}}{(1 - e^{-\lambda \omega})|_{19\%6}^{\infty}} = 50 - \frac{\omega}{-(1 - e^{19\%6\omega})|_{19\%6}^{\infty}}$ =50-(-0) = 0 Intuitionally the result makes sense as the upside has no boundaries.



0)