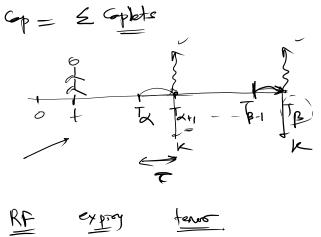
GIRR Vega.

aturdav. November 25, 2023 (option on rates) -> caps/caplets - swaptions No P(+1) (F(+1, T2) NOI) - KN(d2)) w $MTP(+,\tau_2)$. $N(G_1)$, $\frac{\partial V}{\partial F} = v + f(G_1) = k f(G_2)$ $\forall S_0 \phi(d_1) = ke^{-V(T_1+1)} \phi(d_2)$ (F, \$P) VT-F) NT PC+, T2) (S+) (A1). VT-+





$$V_{cp} = NZ \leq P(+,T_i)BI(k,F(+,T_{i-1},T_i),\sigma V_{i-1})$$

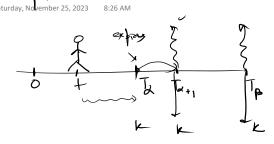
$$R \qquad d_1 = l_n \left(\frac{F(+,T_{i-1},T_i)}{k}\right) + \frac{1}{2}\sigma^2(T_{i-1} - t)$$

RF exprey tensor

1
$$T_{a-t}$$

2 $T_{a+1}-t$
 T
 T
 T





$$\frac{RF}{\bigcirc}$$
 (

Superty =
$$\frac{P(t,Ta) - P(t,Tb)}{T \cdot E \cdot P(t,Tc)}$$
 ds(t) = σ superty ds(t) = σ sup

