

## Hour 18 Scratch

October-21-12  
6:59 PM

$$e^{(AI+J)t} = e^{AI} e^{Jt}$$

$$J = \begin{pmatrix} 0 & 1 \\ 0 & 0 \end{pmatrix}$$

$$e^{Jt} = I + Jt + \frac{t^2 J^2}{2} + \dots$$