

~~Column D~~

$$S_0(t) = P(\overline{T} > t) = (1 - .006713)(1 - .000444)(1 - .000300)$$

3

$$\frac{S_0(a+t)}{S_0(a)} = P(T > a+t | T > a) = 1 - .000300$$

$\downarrow \quad \downarrow \quad \downarrow$
 $2 \quad 1 \quad 2$
 $\underbrace{\hspace{1.5cm}}_3$

$$h_0(t) = \lim_{\Delta \rightarrow 0} \frac{P(t < T < t+\Delta | T > t)}{\Delta} = \lim_{\Delta \rightarrow 0} \frac{P(t < T < t+\Delta)}{\Delta} / P(T > t)$$

$$\Delta = 1$$

$$= f_0(t) / S_0(t)$$

$$f_0(t) = h_0(t) \cdot S_0(t)$$

$$f_0(3) = \underbrace{(1 - .006713)}_1 \underbrace{(1 - .000444)}_1 \underbrace{(1 - .000300)}_1 \cdot \underline{\underline{.000216}}$$

$$P(3 < T < 4)$$