9.4 
$$\lambda(t) = e^{\beta_0 + \beta_1 x(t) + \beta_2 x(t)^2}$$
  
9.5  $\lambda(t) = xe^{-(x(t) - \mu)^2}$   
 $x = e^{\beta_0 - \frac{\beta_1^2}{4\beta_2}} \mu = \frac{\beta_1}{2\beta_2} \sigma^2 = \frac{1}{2\beta_2}$ 

9.5 
$$\lambda(t) = \frac{-(x(t) - \mu)^2}{\sqrt{2}}$$

$$= \rho_0 - \frac{\beta_1^2}{4\beta_2} + \beta_2 \left(\chi(4) + \frac{\beta_1}{2\beta_2}\right)^2$$

$$= \frac{\beta_0}{\beta_0} - \frac{\beta_1^2}{4\beta_2} + \beta_2 \left[ \chi(+)^2 + 2 \left( \frac{\beta_1}{2\beta_2} \chi(+) \right) + \frac{\beta_1^2}{4\beta_2^2} \right]$$

$$= e^{\beta_0 - \frac{\beta_1^2}{4\beta_2} + \beta_2 \gamma(1)^2 + \beta_1 \chi(1) + \frac{\beta_1^2}{4\beta_2}}$$

$$= e^{\beta_0 + \beta_1 \times (4)} + \beta_2 \times (4)^2$$

$$= \lambda(4) 9.4$$