$$P_{o}^{\lambda}(s) = V_{o}(s)$$

$$V^{\lambda}(s) = (1-y) \sum_{t=0}^{\infty} Y^{t} P_{t}^{\lambda}(s) = \lambda t \frac{t}{s} \frac{1}{t} \frac{1}{s} \frac{1}$$