

GIVEN

$$\times \sim P_{\times}(x)$$

$$Y = g(X)$$

$$g(R) = e^{(R-1)t}$$

$$g^{-1}(y)$$
  
 $y = e^{(r-1)t}$   
 $\ln y = (r-1)t$   
 $R = \frac{1}{t} \ln y + 1$   
 $g^{-1}(y) = \frac{1}{t} \ln y + 1$ 

$$\frac{\partial g}{\partial R} = e^{-t} Rt$$

$$= te^{(12-1)t}$$

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$$dR = te^{(12-1)t}$$

$$PY(y) = PR(\frac{1}{t} L_{y} y^{+1}) \cdot \frac{1}{y^{t}}$$

$$PY = \frac{t^{30}}{t^{30}} \frac{1}{y^{t}}$$

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$$P(Y) = 0.5$$

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