

COMPUTE PROB THAT B.M. HITS -3

BEFORE TIME 2:

$$P(T_{-3} < 2) = P\left(\frac{1}{T_{-3}} > \frac{1}{2}\right) = \int_{\frac{1}{2}}^{\infty} \text{Gamma}(x; \frac{1}{2}, \frac{(-3)^2}{2}) dx$$

$$= 1 - \text{pgamma}\left(\frac{1}{2}, \frac{1}{2}, (-3)^2/2\right) = \underline{0.03389}$$

