

6 Cont.:

$$\begin{aligned} \text{iii. } P(P > 0) &= P\left(\frac{P - \mu_P}{\sigma_P} > \frac{-\mu_P}{\sigma_P}\right) \\ &= P\left(Z > -\frac{.072}{.0394}\right) \\ &= 1 - P(Z \leq -1.83) \\ &= 1 - \Phi(-1.83) = 1 - .0336 \\ &= \underline{\underline{.9664}} \end{aligned}$$