

$$P(\bar{X} \geq 4) \approx P(Y \geq 4)$$

$$= P\left(\frac{Y - 3.2}{.24} \geq \frac{4 - 3.2}{.24}\right)$$

$$= P\left(Z \geq \frac{.8}{.24}\right) 3.33$$

$$= 1 - \Phi(3.33) = 1 - .9996$$

$$= .0004$$

don't use  
correction  
for continuity