## Homework \# 7 (Chapter 5) <br> STAT 110/ A1, C1, E1, M1

Review Exercises (page 279)
2. No, the sum of the probabilities is less than one.
8.

$$
\begin{aligned}
& \mu= \\
& =0(0.12)+1(0.20)+2(0.31)+3(0.25)+4(0.12) \\
& =2.05 \\
\sigma^{2}= & \sum_{0} X^{2} P(X)-\mu^{2} \\
= & {\left[0^{2}(0.12)+1^{2}(0.20)+2^{2}(0.31)+3^{2}(0.25)+4^{2}(0.12)\right]-(2.05)^{2} } \\
= & 1.41
\end{aligned}
$$

14. $n=10, p=0.3, X=5, \quad P(X)=0.103$
