5. $n=4$, $p=0.3$, $x=1$

$P(X=1)$

$= \boxed{0.4116}$

6. $n=4$, $p=0.45$

$P(X \leq 2)$

$= P(X=0) + P(X=1) + P(X=2)$

$= .0915 + .2995 + .3675$

$= \boxed{.7585}$

7. $n=4$, $p=0.45$

$P(X \leq 2)$

$= \boxed{.7585}$

ex: $P(X \geq 2)$ $n=4$ $p=0.45$

$P(X=2,3,4)$ $\{0,1,2,3,4\}$

$P(X=\cancel{0,1},2,3,4) - P(X=0,1)$

$\quad 1 \qquad\quad - P(X \leq 1)$ 100% prob. wise

$\qquad 1 - .3910$ "1"

$\qquad = \underline{\quad\quad}$

ex: $P(1 \leq x \leq 3)$ $n=4$, $p=0.45$

$P(X=1,2,3)$

$P(X=\cancel{0},1,2,3) - P(X=0)$

$\qquad .9590 - .0915$

$\qquad = \underline{\quad\quad}$