

13. Si on tire une fois, p

$$2 \text{ " , } (1-p)p$$

$$3 \text{ " , } (1-p)^2 p$$

$$4 \text{ " , } (1-p)^3 p$$

$$k \text{ , } (1-p)^{k-1} p$$

$$14. P(0) = \binom{5}{0} .4^0 .6^5 = .6^5 = .07776$$

$$P(1) = \binom{5}{1} (.4)^1 (.6)^4 = 5(.4)(.6)^4 = .25920$$

$$P(2) = .34560$$

$$P(3) = .23040$$

$$P(4) = .07680$$

$$P(5) = .01024$$

$$E(X) = 0 \cdot (.07776) + .25920 + .34560 \cdot 2 +$$

$$.23040 \cdot 3 + .07680 \cdot 4 + .01024 \cdot 5 = 2$$