$$\sum_x (x - \mu)^2 f(x)$$

$$E(X^2) - [E(X)]^2$$

The followings are for ? distribution:

$$f(x) = \binom{n}{x} p^x (1 - p)^{n-x}$$

$$E(X) = np$$

$$Var(X) = np(1 - p)$$

$$\binom{n}{x} = \frac{n!}{x!(n - x)!}$$

The followings are for ? distribution:

$$f(x) = \frac{\mu^x e^{-\mu}}{x!}$$