Ejercicio 1. Let X be a random variable that represents the number of heads in two tosses of a fair coin. What is the value of $E[X^2]$? What is the value of $E[X]^2$?

 $Var(X) = F[(X - E[X])^2]$ E[E[x]2]: el prome do $= \mathbb{E}\left[x^2 - 2x E[x] + E[x]^2\right]$ = E[x2]-E[2XE[x]]+ E[E[x]3] $= E[x^2] - 2E[x] \cdot E[x] + E[x]^2$