

$$\begin{aligned}\text{var} X &= E(X - EX)^2 \\ &= E[X^2 - 2(X)(EX) + (EX)^2] \\ &= EX^2 - 2(EX)(EX) + (EX)^2 \\ &= EX^2 - (EX)^2\end{aligned}$$