1 Knowing that $V(X) = E(X^2) - \mu^2$, find simple expressions for V(cX) and V(X+c), for a constant c.

2 If X and Y are independent random variables, then V(X+Y)=V(X)+V(Y). What is V(X) if X is the number of successes out of n Bernoulli trials with probability p?