1.5 (1.38) varifj= E[(f(x)-E[f(x)])] (according to 1.34) = \[\(\text{P(x)} \] \(\frac{1}{(x)} + \(\frac{1}{(x)} \] - 2 \(\frac{1}{(x)} \) \(\frac{1}{(x)} \] \(\delta \times \) = SP(x) f2(x) dx + SP(x) E2 Ef(x) J dx -2 SP(x) f(x) E[f(x)] dx = E(((x)) + E((1(x))) -)E((x)) (p(x) (x) dx = E[f(x)] + E'[f(x)] · 1 - 2 E[f(x)] E[f(x)] = [[(x)] - [2[(x)] (1.35) Key point: E(x) is constant. so is E[f(x)] Therefore E[f(x)] can be pulled out of the integral