

EX) = 1.0.05+2.0.1 + 4.0.35 + 8. 7 + 16.0.1

b. V(X) = 0.05 (1-6.45)2 + 0.1(2-6.45) + 0.35 (4-6.45) + 0.4(8-6.45)4 4 0.1 (16-6.45)2

c.
$$SDKJ = \sqrt{VARCO} = \sqrt{15.64} = 3.95$$

$$d - Var(x) = E(x^2) - E(x)^2$$

33.
$$A = (x^2) = \int_{x=0}^{1} x^2 p(x)$$

= $\partial^2 \times (1-p) + l^2 + p$

$$b. V(x) = E(x^2) - (E(x)^2)$$

$$= 0^{2} \times (1-p) + 1^{2} \times p = p$$

$$V(x) = p - p^{2}$$

$$= p(1-p)$$

$$= x^{2} - x^{2} - p(x)$$

32.
$$P(x=1) = \frac{1}{2}$$

41.

$$V(ax+b) = E[(ax+b) - E(ax+b)]^2$$

$$V(x) = \delta^2, V(ax+b) = a^2 \delta_x^2$$

