

$$E[X], E[Y], V[X], V[Y]$$

$$E[X] = -1 \cdot \frac{1}{8} \cdot \frac{1}{2} \cdot \frac{1}{4} + \frac{1}{2} \cdot \frac{1}{2} + \frac{1}{3} \cdot \frac{1}{8}$$

$$= -\frac{1}{8} - \frac{1}{8} + \frac{1}{4} + \frac{1}{8}$$

$$= \frac{1}{8}$$

$$= -\frac{1}{8} - \frac{1}{8} + \frac{1}{4} + \frac{1}{8}$$

$$= \frac{1}{8}$$

$$= -\frac{1}{4} + \frac{1}{2} + \frac{1}{4}$$

$$= \frac{1}{4} + \frac{1}{2} + \frac{1}{4}$$

$$= \frac{1}{4} + \frac{1}{2} + \frac{1}{4} + \frac{1}{2} + \frac{1}{4}$$

$$= \frac{1}{4} + \frac{1}{2} + \frac{1}{4} + \frac{1}{4}$$

