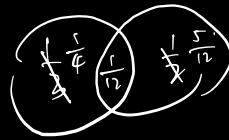


$$\frac{1}{3} + \frac{1}{2} - \frac{1}{12} = \frac{10}{12} - \frac{1}{12} = \frac{9}{12} = \frac{3}{4}$$

$$P(\bar{A} \bar{B})$$



AB

$$\frac{1}{12} \quad \frac{1}{2} + \frac{1}{4} = \frac{3}{4}$$

$$\frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{(x-\mu)^2}{2\sigma^2}}$$

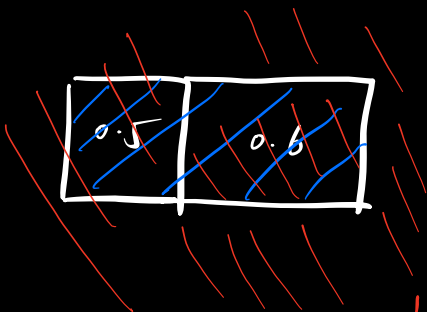
$$\mu = 20$$

$$\sigma = 40$$

$$-30 < x < 30$$

$$-\frac{5}{4} < \frac{x-20}{40} < \frac{1}{4}$$

$$0.599$$



$$P(B|A) = \frac{P(AB)}{P(A)}$$

$$A \cap B \mid A \cup B$$

$$P(A \cap B \mid (A \cup B))$$

$$P(A \cup B)$$

$$= 1 - \frac{P(AB)}{P(A+B)}$$

$$= 1 - \frac{0.5 \times 0.6}{0.5 + 0.6 - 0.3}$$

$$AB \cdot (A+B)$$

$$AB + AB$$

$$1 - e^{-\frac{x}{200}}$$

$$1 - e^{-\frac{150}{200}}$$

$$0.6 \times$$

$$\frac{1}{12} f\left(\frac{n+1}{2}\right)$$

$$\geq 1 - \frac{\lambda}{9\lambda} = 1 - \frac{1}{9}$$

$$4 + 2X - Y \sim N(1, 16)$$

$$\frac{x - \mu}{\sigma}$$

$$EM^2 = DM + E^2M$$

$$16.$$

$$= 16 + 1 = 17$$

$$\frac{\text{cov}(2X - Y, X + Y)}{4 \times 4} = \frac{1}{16} \left(\underbrace{2DX}_{0} + \underbrace{\text{cov}(X, Y)}_{2} - \underbrace{DY}_{16} \right)$$

$$0.5 = \frac{\text{cov}}{4}$$

$$= \frac{1}{16} \cdot (-14)$$

$$= -\frac{7}{8}$$

$$E(\bar{X} - kS^2)$$

$$= \mu - k\sigma = mp - kmp(1-p) = mp^2$$

$$1 - k(1-p) = p$$

$$k = 1.$$

$$\frac{\bar{X} - \mu}{2/\sqrt{n}} \sim N(0, 1)$$

$$EX^2.$$

$$1 = 2 - 0$$

$$= E \left| \frac{\bar{X} - \mu}{2/\sqrt{n}} \right|^2 \leq \frac{0.1}{4} n$$

$$= 1.$$

$$n \geq 40$$

$$E\bar{X} = 1$$

$$D\bar{X} = \frac{1}{n} \frac{1}{123} = \frac{1}{3n} = E\bar{X}^2 - 1.$$