1) roll-
$$P(AUB) = P(A) + P(B) - P(ADB)$$

$$P(ADB) = 0.5 + 0.6 - 0.7$$

$$P(ADB) = 0.4$$

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$$P(ADB) = 0.4$$

$$P(ADB) = 0.5 + 0.6 - 0.7$$

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$$P(ADB) = 0.5 + 0.6 - 0.7$$

$$P(ADB) = 0.5 + 0.6$$

prob. (randomly picked child belong to dentity glass (NId))

$$= \frac{3\phi}{10\phi} \times 2 \times 10^{1} + \frac{3\phi}{10\phi} \times 2 \times 10^{1} + \frac{2\phi}{10\phi} \times 1 \times 10^{1})$$

$$= \frac{6}{15 + 6 + 2} = \frac{6}{23} / 1$$

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6.5 ver
$$p(odd) = 0.98 p(even) = 0.99 p(even) = 0.9 p$$

8) role Given p (LEDI) = 0.5 P (LED2) = 0.5 9 P (1/201) = 0.7 P (2/1ED2) = 0.4 wer need to find p(D) = ? p(1) = p(101) x p(1/101) + p(1802) xp(1/102) = (0.5 × 0.7) + (0.5 × 0.4) : [p(1) = 0.55] 9) sols Given prob. density function in exportally ded. with [1=2] exp. did for 170 TE(x) = mean = 1/A = 1/2 = 0.5] we need to find p(x > mean) = ? $p(x > 0.5) = \int x e^{-xx} dx = \int 2e^{-2x} dx$ = & Ge-22) = e-2×1/2 = e'= /e : [p(x> mean) = /e = 0.367]

10) sol; fiven p(x) = 0.8 = 0.8 = 0.2 p(y) = 0.5 = 0.3 = 0.2 p(y) = 0.3 = 0.2 = 0.2 p(y) = 0.3 = 0.2 = 0.2 p(y) = 0.3 = 0.2 = 0.2 p(y) = 0.5 = 0.0 p(y) = 0.5 = 0.0 p(y) = 0.5 = 0.0 p(y) = 0.5 p(y) = 0.5