№7

A - четное B - >, 5

$P(A) = \frac{1}{2}$ $P(B) = \frac{1}{3}$ $P(A \cap B) = \frac{1}{2} \cdot \frac{1}{3} = \frac{1}{6}$

а) $P(A) - P(A \cap B) = \frac{1}{2} - \frac{1}{6} = \frac{1}{3} = 0,334$

б) $P(B) - P(A \cap B) = \frac{1}{3} - \frac{1}{6} = \frac{1}{6} = 0,167$

в) $P(A) + P(B) - P(A \cap B) \cdot 2 = \frac{1}{2} + \frac{1}{3} - 2 \cdot \frac{1}{6} = \frac{1}{2} = 0,5$

г) $P(A) + P(B) - P(A \cap B) = \frac{1}{2} + \frac{1}{3} - \frac{1}{6} = \frac{2}{3} = 0,667$

д) $P(\bar{A} \cap \bar{B}) = 1 - P(A \cup B) = 1 - (P(A) + P(B) - P(A \cap B))$

$= 1 - \left(\frac{1}{2} + \frac{1}{3} - \frac{1}{6}\right) = \frac{1}{3} = 0,334$

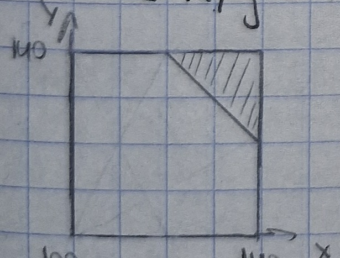
е) $P(\bar{A} \cap \bar{B}) + \left(P(A) + P(B) - 2 \cdot P(A \cap B)\right) = 1 - (P(A)$

$+ P(B) - P(A \cap B)) + \left(P(A) + P(B) - 2 \cdot P(A \cap B)\right) = 1 - \left(\frac{1}{2}\right.$

$\left. + \frac{1}{3} - \frac{1}{6}\right) + \left(\frac{1}{2} + \frac{1}{3} - 2 \cdot \frac{1}{6}\right) = \frac{5}{6} = 0,834$

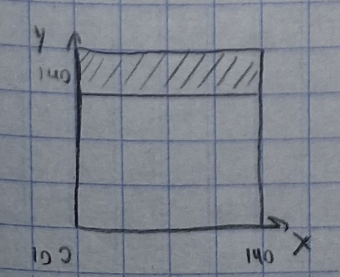
№8

$100 \leq x, y \leq 140$



а) $x + y > 260$

$P(A) = \frac{20 \cdot 20 \cdot \frac{1}{2}}{1600} = 0,125$



б) $y > 130$ $P(B) = \frac{40 \cdot 10}{1600} = 0,25$