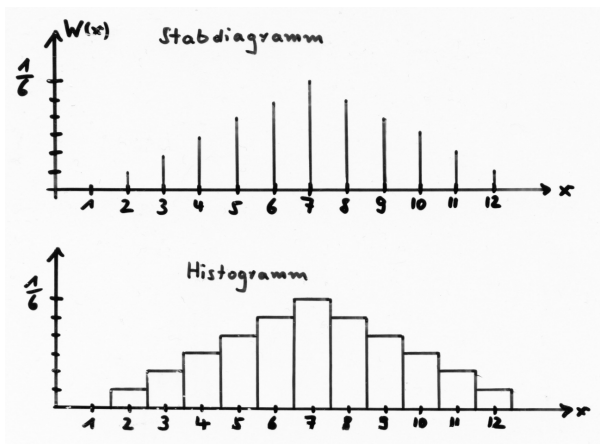


LK Mathematik * Wiederholung Zufallsgrößen * Lösung

a)

x	2	3	4	5	6	7	8	9	10	11	12
$W(x) = P(X=x)$	1/36	2/36	3/36	4/36	5/36	6/36	5/36	4/36	3/36	2/36	1/36

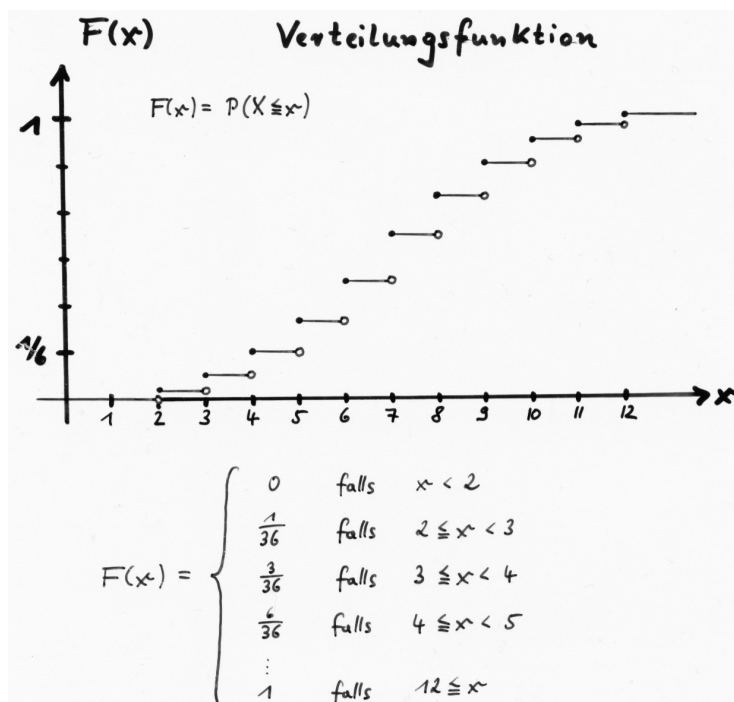


b) $P(X=3) = \frac{2}{36} = \frac{1}{18}$; $P(X=0,5) = 0$; $P(3 < x < 6) = P(X=4) + P(X=5) = \frac{7}{36}$

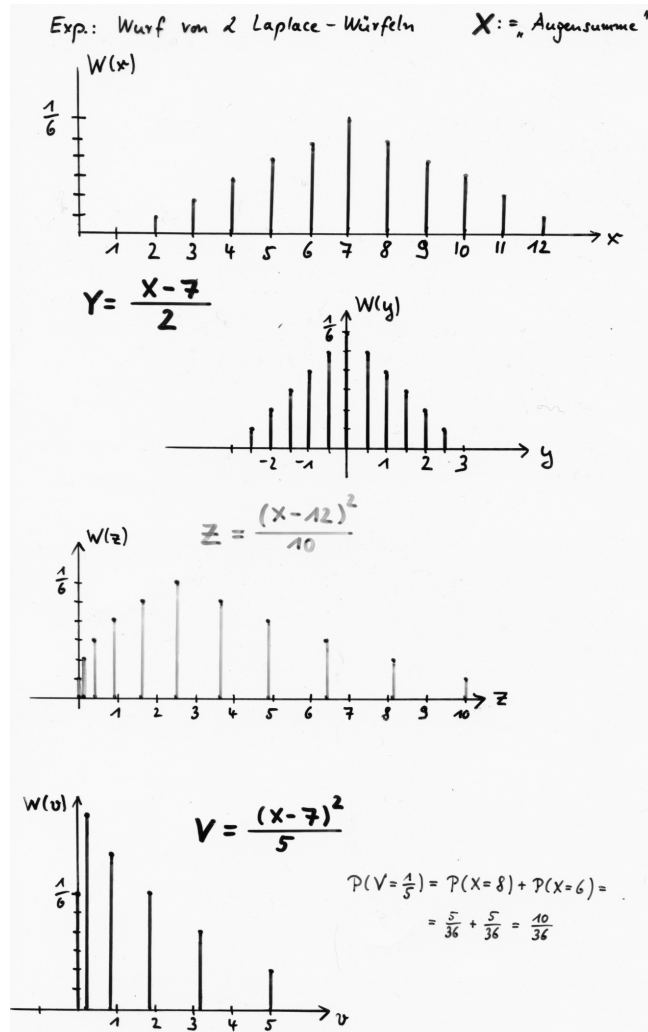
$W(4) = P(X=4) = \frac{3}{36} = \frac{1}{12}$; $F(4) = P(X \leq 4) = \frac{1+2+3}{36} = \frac{6}{36} = \frac{1}{6}$

c) $P(\text{„Die Augensumme betragt mindestens 9“}) = P(X \geq 9) = \frac{4+3+2+1}{36} = \frac{10}{36} = \frac{5}{18}$

d)



e)



f)

