

V MA2 13.4.2015

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Mi, 15.04.2015, 11 Uhr 0.401

PFLICHT : Einf MA2-Praktikum

Klausur 1a) $\sqrt{5-x} + 3-x = 0$ $| (+)^2$
 Aufg. $\sqrt{5-x} + 3-x = 0$

~~$\sqrt{5-x} + 3-x = 0$~~

~~$5-x + 2\sqrt{5-x}(3-x) + (9-6x+x^2) = 0$~~

2a) $3\sqrt{x-5} = \sqrt{3^2(x-5)} = \sqrt{9(x-5)}$

$\lim_{n \rightarrow \infty} \frac{\sqrt{n^2+2n+2} + 4n-5}{n+5}$

$|$ g.P.z.N.
 $\cdot \left(\frac{1}{n}\right)$

$= \lim_{n \rightarrow \infty} \frac{\frac{1}{n}\sqrt{n^2+2n+2} + \frac{4n-5}{n}}{\frac{n}{n} + \frac{5}{n}}$

$= \lim_{n \rightarrow \infty} \frac{\sqrt{\frac{n^2}{n^2} + \frac{2n}{n^2} + \frac{2}{n^2}} + 4 - \frac{5}{n}}{1 + \frac{5}{n}}$

Beschreibende Statistik

x_i	1	2	3	4	5	6	7	8	
n_i	20	25	10	2	8	5	0	30	100
h_i	0.2 20%	0.25 25%	0.1 10%	0.02 2%	0.08 8%	0.05 5%	0 0%	0.3 30%	100%
H_i	20%	45%	55%	57%	65%	70%	70%	100%	

a) $h(4 \leq x_i < 7) = 2\% + 8\% + 5\% = 15\%$
 $= H_6 - H_3 = 70\% - 55\% = 15\%$

b) $h(2 < x_i \leq 6) = 10\% + 2\% + 8\% + 5\% = 25\%$
 $= H_6 - H_2 = 70\% - 45\% = 25\%$