MAS Ü8

1.) $(\mathbb{R}, \mathcal{B}, \mathbb{P})$ P... Standardnormalverteilung

ges: $\mathbb{P}(]-\infty; 1,6])$, $\mathbb{P}(]-1,1; 1,8[)$, $\mathbb{P}([1,4; \infty[)$

$\mathbb{P}(]-\infty, 1,6]) = \Phi_{0,1}(1,6) = 0{,}94520$

$\mathbb{P}(]-1,1; 1,8[) = \Phi_{0,1}(1,8) - \Phi_{0,1}(-1,1) = \Phi_{0,1}(1,8) - (1 - \Phi_{0,1}(1,1)) = 0{,}96407 - (1 - 0{,}86433)$

$\qquad = 0{,}8284$

$\mathbb{P}([1,4; \infty[) = 1 - \mathbb{P}(]-\infty, 1,4[) = 1 - \Phi_{0,1}(1,4) = 1 - 0{,}91924 = 0{,}68076$