

Nr. 1) $\mu = 1$; $\sigma = 0,3$

$$a) P(X < 0,8) = \int_{-\infty}^{0,8} \varphi_{1,0,3}(x) dx \approx 0,2525$$

$$b) P(1,2 < X) = \int_{1,2}^{+\infty} \varphi_{1,0,3}(x) dx \approx 0,2525$$

$$c) P(0,8 \leq X \leq 1,2) = \int_{0,8}^{1,2} \varphi_{1,0,3}(x) dx \approx 0,4950$$

$$d) P(1,5 < X) = \int_{1,5}^{\infty} \varphi_{1,0,3}(x) dx \approx 0,0478$$

$$e) P(X \leq 0,8) = \int_{-\infty}^{0,8} \varphi_{1,0,3}(x) dx \approx 0,2525$$

$$f) P(X = 1,2) = \int_{1,2}^{1,2} \varphi_{1,0,3}(x) dx = 0$$

$$g) P(0,8 < X < 1,2) = P(0,8 \leq X \leq 1,2) \approx 0,4950$$

$$h) P(1,5 \leq X) = P(1,5 < X) \approx 0,0478$$