

LÖSUNG ZU 400:

$$P(X \leq 8) = \Phi\left(\frac{8-10}{2}\right) = \Phi(-1) = 1 - \Phi(1) \quad \rightarrow 1D$$

$$P(X \geq 14) = \Phi\left(\frac{14-10}{2}\right) = \Phi(2) \quad \rightarrow 2F$$

$$P(8 \leq X \leq 12) = \Phi\left(\frac{12-10}{2}\right) - \Phi\left(\frac{8-10}{2}\right) = \Phi(1) - \Phi(-1) = 2 \cdot \Phi(1) - 1 \quad \rightarrow 3A$$

$$P(X \leq 6) = \Phi\left(\frac{6-10}{2}\right) = \Phi(-2) \quad \rightarrow 4B$$

Lösung: 1D, 2F, 3A, 4B

