



$$= P(\frac{x-8}{6.5} \le \frac{10-8}{6.5}) - P(\frac{x-8}{0.5} < \frac{7.5-8}{6.5})$$

$$= \Phi(4) - \overline{\Phi}(-1) = \overline{\Phi}(4) - (1 - \overline{\Phi}(0))$$

$$= \overline{\Phi}(4) - \overline{\Phi}(4) - \overline{\Phi}(4) = 0.8413$$