

The thicknesses of glass sheets produced by a certain process are normally distributed with a mean of  $\mu = 3.00$  mm and a standard deviation of  $\sigma = 0.12$  mm.

**(a)** What is the probability that a glass sheet is thicker than 3.2 mm? [2]

**(b)** What is the probability that a glass sheet is thinner than 2.7 mm? [2]