

This quiz covers material from section 8.5.

1. (*2 points*) For each of the following standard normal curves, calculate the probability using the table on the back.

a. (*1 pt*) $P(Z > 1.58)$

b. (*1 pt*) $P(-1.28 < Z < 0.09)$

2. (*3 points*) Let X be a normally distributed variable with mean 300 and standard deviation 20. Find the following probabilities.

a. (*1 pt*) $P(280 \leq X \leq 320)$

b. (*1 pt*) $P(268 \leq X \leq 331)$

c. (*1 pt*) $P(297 \leq X \leq 300)$