

Attendance Quiz 9

Name: _____ Date: _____

1. Assume that the readings on the thermometers are *normally distributed* with a mean 0° and a **standard deviation of $1^\circ C$** . A thermometer is randomly selected and tested. In each case, draw a sketch, and find the probability of each reading in degrees.

(a) $P(z < -2.75)$

(b) $P(z \leq 2.75)$

(c) $P(z > 1.96)$

(d) $P(z > -1.96)$

(e) $P(1.50 < z < 2.50)$

(f) $P(-1.18 < z < 2.15)$

(g) $P(-3.88 \leq z \leq 1.07)$

(h) $P(z < 0)$