I just want to be NORMAL!

Activity 3: The Standard Normal Distribution

Assume that readings on a temperature scale are normally distributed with a mean of 0° and a standard deviation of 1.00°C. A thermometer is randomly selected and tested. Draw a sketch, write the appropriate notation, and find the probability.

a) between 0 and 1.28

b) greater than 0.37

c) greater than -0.27

d) between -1.08 and 0.33

e) If 12% of the thermometers are rejected because they have readings that are too high, but all other thermometers are acceptable, find the reading that separates the rejected thermometer from the others.