

1. assume the random variable x is normally distributed with mean (wierd character)..(u)=80 and standard deviation o=5 find the indicated probability

$P(x < 70) =$
(round to four decimal places as needed) Please show your work

$$P(x < 70) = P\left(\frac{x-80}{5} > \frac{112-80}{5}\right) = P\left(\frac{x-80}{5} > 3.2\right) = \text{by Central Limit Theorem} = 1 - F(3.2) = 0.007$$