

2. assume the random variable x is normally distributed with mean (wierd character) $\mu=50$ and standard deviation $\sigma=7$ find the indicated probability
 $P(x>43)=$
(round to four decimal places as needed)

$$P(x>43)=P\left(\frac{x-50}{7} > \frac{43-50}{7}\right) = P\left(\frac{x-50}{7} > -1\right) = \text{by Central Limit Theorem} = 1-F(-1)=F(1)=0.3413$$