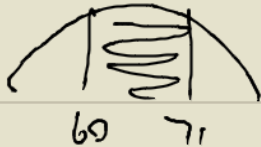


4. c) $\mu = 70$ $\sigma = 2$

CALC  $NCDF(60, 71, 70, \frac{2}{\sqrt{30}}) = .9873$

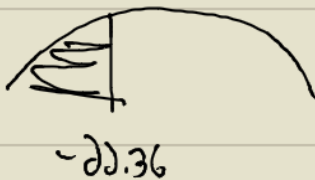
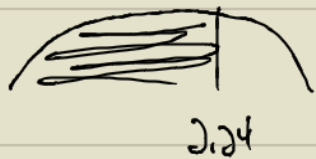
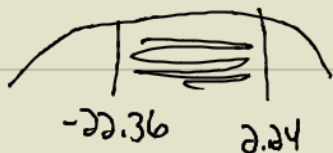
HAND $Z = \frac{X - \mu_{\bar{X}}}{\sigma_{\bar{X}}}$ $\mu_{\bar{X}} = \mu = 70$
 $\sigma_{\bar{X}} = \frac{\sigma}{\sqrt{n}} = \frac{2}{\sqrt{30}} = .4472135955$

$X = 60$
 $Z = \frac{60 - 70}{.4472135955}$

$X = 71$
 $Z = \frac{71 - 70}{.4472135955}$

$Z = -22.36$

$Z = 2.24$



$.9875 - .0002$

.9873