ECE 341 - Homework #10

Testing with Normal Distributions. Due Thursday, June 3rd

Please make the subject "ECE 341 HW#10" if submitting homework electronically to Jacob_Glower@yahoo.com (or on blackboard)

The high and low for the month has been measured at Hector Airport since 1942. The mean and standard deviations are:

Month	Мау	June	July	Aug	Sept	Oct
Mean	87.88	91.88	94.64	94.6	89.56	79.46
st dev	4.57	4.41	4.02	4.62	5.66	6.82

Monthly Highs (degrees F): http://www.bisonacademy.com/ECE111/Code/Fargo_Weather_Monthly_High.txt

Month	May	June	July	Aug	Sept	Oct
Mean	27.35	40.34	46.36	43.3	30.54	19.1
st dev	4.41	4.11	3.97	4.16	4.77	5.53

Monthly Lows (degrees F)

Highs:

1) What is the **90%** confidence interval for the high in June?

2) What is the probability that it will break 100F in June?

3) What is the probability that the high in June will be more than the high in July? skip

Lows:

4) What is the **99%** confidence interval for the low in June?

5) What is the probability that it get colder than 32F in June?

6) What is the probability that the low in July will be colder than the low in June? skip