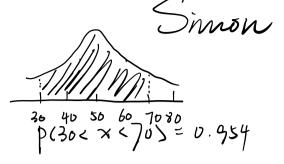
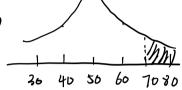
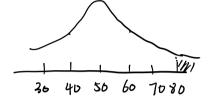


6





do



P(X>70) = 0.0228

$$t = \frac{y - y}{\frac{5}{400}} = \frac{57 - 50}{\frac{5}{400}} = 1.7649$$

The critical value of t at 5% level of freedom of 9:5 7.76v. t<2.76v.

So Hu can't be rejected so the 4=50.

C) CI=(ýt tvalue 流)=(52-226元,52+216元)

The confidence interval vil include the true mean value, so mult hypothesis ant be rejected.

The critical value of t at 5% level of freedom of 99 is

So Hu is rejected so 14 \$50

c) The result differers because the two different sample.

Type I error fails to reject the when Hitme.

- 4. a) normal distribution
 - Sample mean is unbiassed. because it is close to population mean.
 - Sample mean is narrow.
 - PC=>9)=0.0023
 - P value is the possibility of rejecting null hypothesis.

 6.73/2 of repeated samples.
 - 5) Similar, both normal distribution Sample mean and population main close to U. SE is smaller in sample of 100 because differen size.

C) No. I don't believe population mean is a. The sample mean is an unbiased estimator of bombotion mean.

- 5. a) not normal, because it only has left sticle
 - bo no
 - c> No
 - do mo
 - e) no
 - fo Yes
 - g) When the sample mean approaches to a normal distribution, the sample size is also getting larger.
- 6. a) 9 b) 81
- 7. percentiating sat Math

 a) mean

 35.49

 529.27

 b) variance

 690.975

 1213.443

 c) SE

 3.68

 4.877

 c) 959, CI

 [28.10, 42.43)

 (519.48, 539.01)

 e) It is different became 9590 CI doesn't have p.

 f) They are not normally dictributed.

but it will not affect the CI.