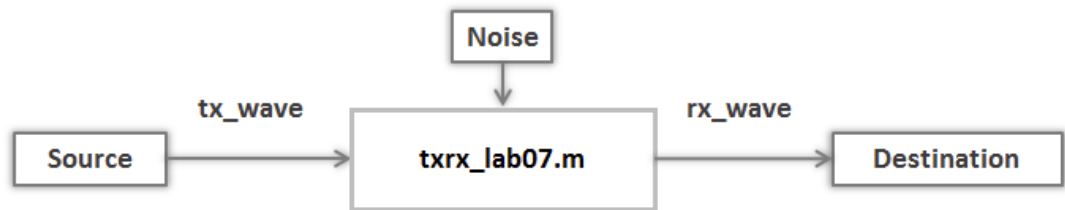


Help

## LAB 7 TASK 2 - NOISE SAMPLES

You will investigate the effect of the number of samples on the histogram.



```

1 % Copy your code from Task 1 below
2
3

```

Unanswered

Run Code

Check

### INSTRUCTIONS

#### Step 1: Copy your code from Task 1

Copy your code in Task 1 where you generated the empirical histogram for the additive noise to the blank code window above.

#### Step 2: Effect of the number of samples

In Task 1, you generated the empirical histogram for the first **nsamp=80** signal samples. Try adjusting the number of samples to **nsamp=200**, **nsamp=500**, **nsamp=1280** and observe the resulting histograms corresponding to different number of signal samples. You do not need to submit your work for this task. Based on your observations, answer the

### LAB 7 TASK 2 - QUESTION 1 (1 point possible)

Which one of the following phrases is the correct completion of the sentence that starts "As the number of signal samples used in computing the empirical histogram increases," ?

Please select the correct answer.

- ☐ The values of the histogram converge towards the theoretical predictions.
- ☐ The values of the histogram vary more widely around the theoretical predictions.
- ☐ The mean (center) of the empirical histogram increases.
- ☐ The mean (center) of the empirical histogram decreases.

Check

Save

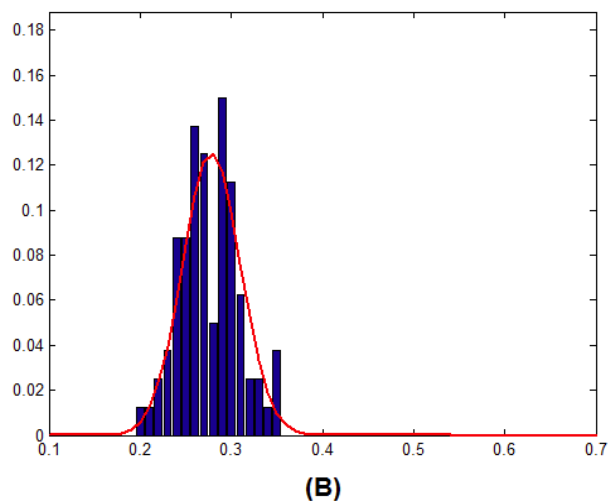
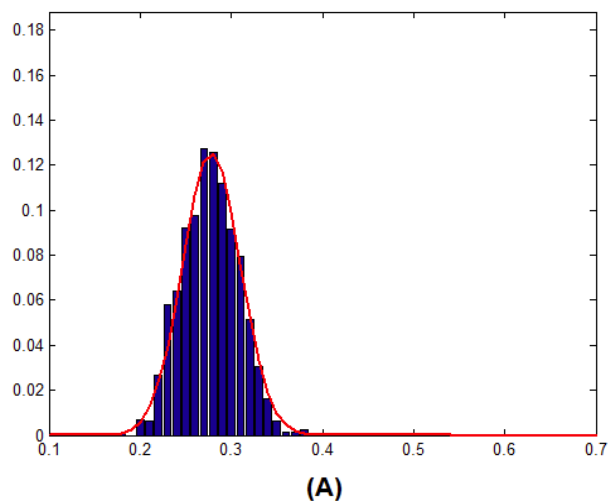
You have used 0 of 2 submissions

### LAB 7 TASK 2 - QUESTION 2 (1 point possible)

Which one of the following empirical histograms (blue bars) is generated with a smaller number of samples? The red line shows the theoretically predicted distribution.

Please select the correct answer.

- ☐ A
- ☐ B



Check

Save

You have used 0 of 2 submissions



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