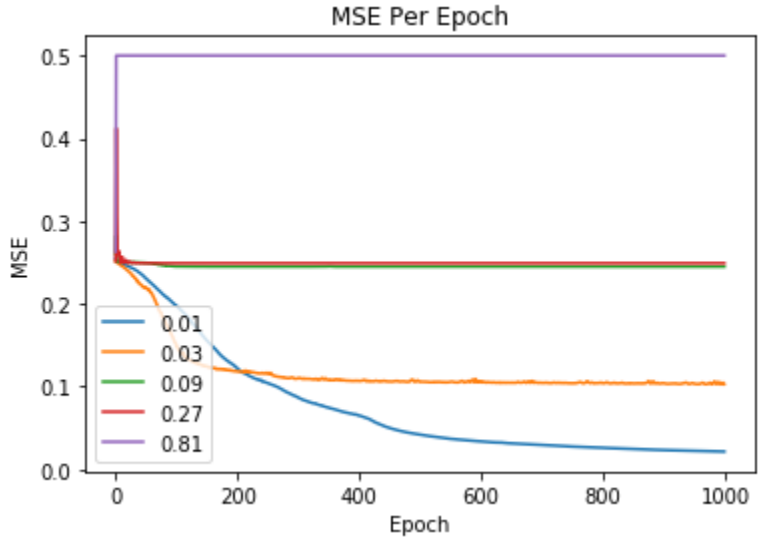
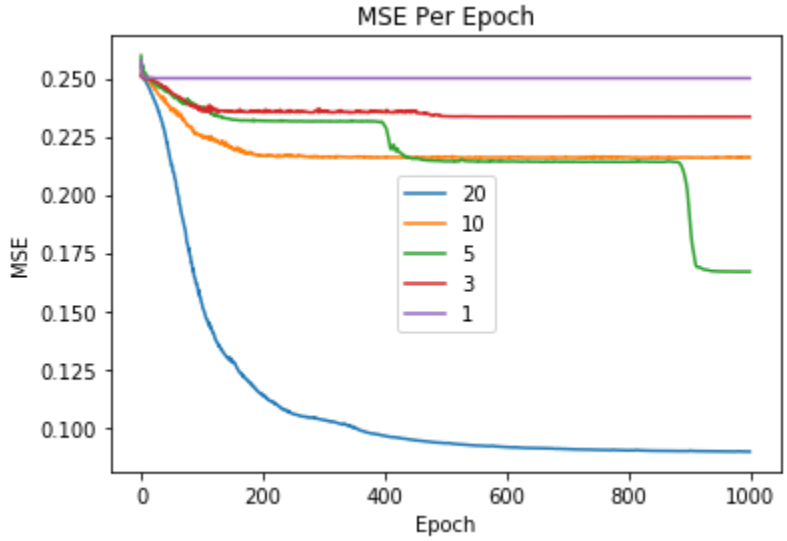
Feed Forward Tasks

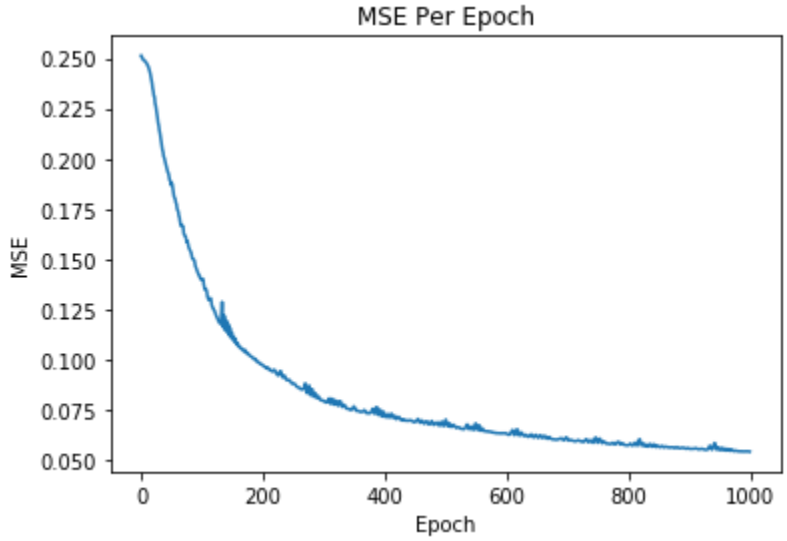
Graph of loss curve for 5 different learning rates:



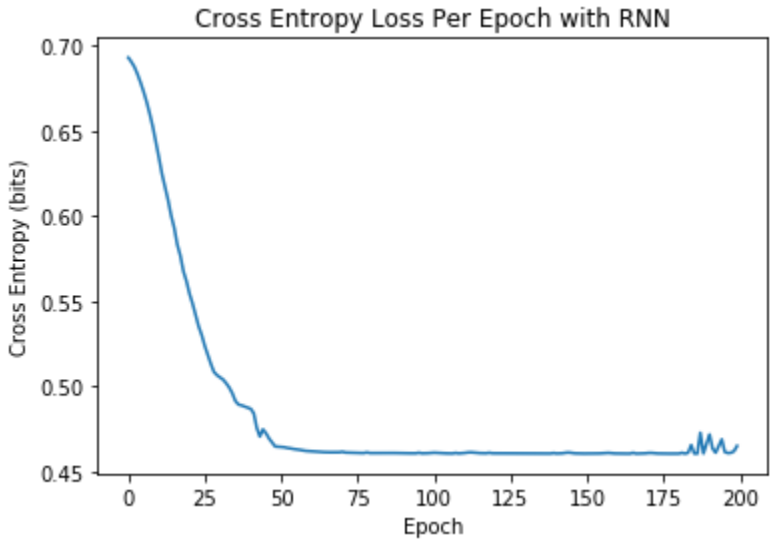
Graph of loss curve for 5 different numbers of hidden nodes:



Graph of loss curve with an additional layer:



RNN Task:



In [60]:
```
# Now that we have trained the network, if all is good we should be able to classify
# a sequence of many lengths using forward predict. Try it out below and see for yourself!
print(mynet.forward_predict(torch.FloatTensor([1,0,0,1,0,1,1,0,0,0,0,1])))
print(mynet.forward_predict(torch.FloatTensor([1,0,1,1,0,1,1,0,0,1,0])))
print(mynet.forward_predict(torch.FloatTensor([1,1,0,1,0,1,1,0,1])))
print(mynet.forward_predict(torch.FloatTensor([1,0,0,1,1,1,1,1])))
print(mynet.forward_predict(torch.FloatTensor([1,0,1,1,0,1,1])))
```

```
tensor([[0.0025, 0.9975]], grad_fn=<SoftmaxBackward>)
tensor([[0.9955, 0.0045]], grad_fn=<SoftmaxBackward>)
tensor([[0.5000, 0.5000]], grad_fn=<SoftmaxBackward>)
tensor([[0.5000, 0.5000]], grad_fn=<SoftmaxBackward>)
tensor([[0.0038, 0.9962]], grad_fn=<SoftmaxBackward>)
```