

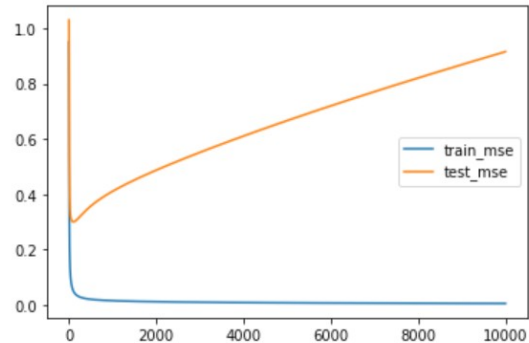
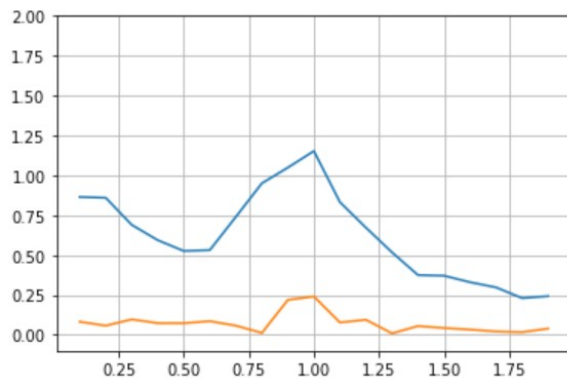
Rapport projet

$d=100$, $n_{\text{train}} = 300$, $n_{\text{test}} = 300$, $N = 30 \rightarrow 600$

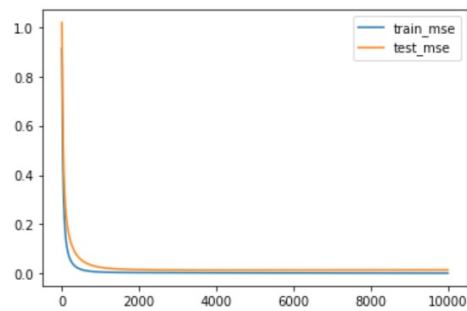
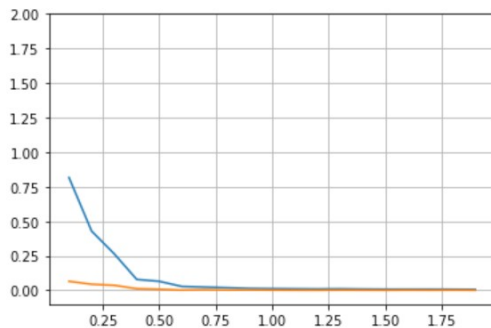
$\text{nb_iterations} = 10000$, $\text{batch_size} = 30$, $\text{learning_rate1} = 0$, $\text{learning_rate2} = 0.01$

Moyenne sur 3 itérations

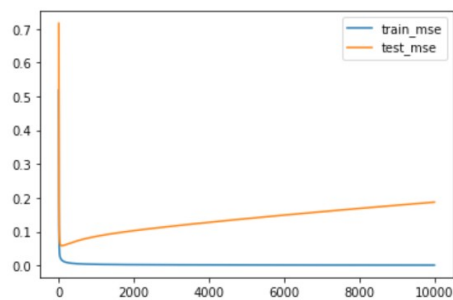
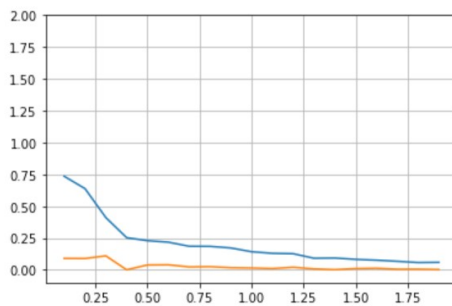
Relu



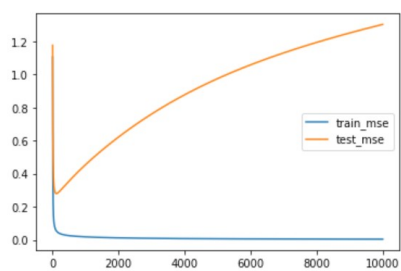
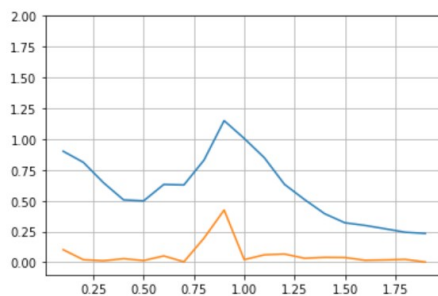
Sigmoid



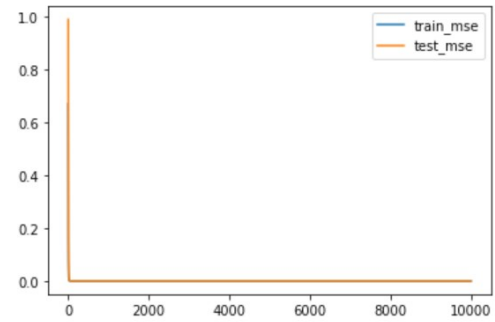
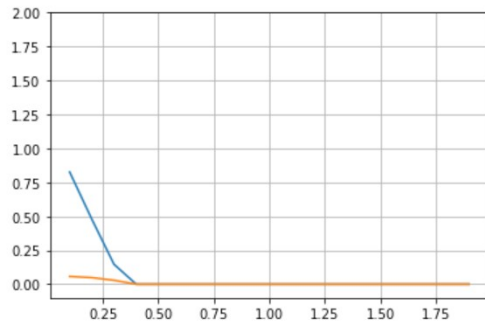
Tanh



LeakyRelu (multiplie par 0.01 pour les négatifs)



Linear

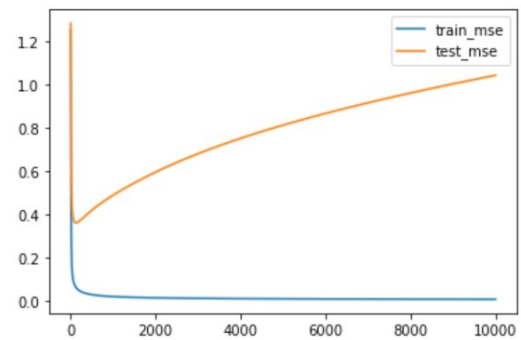
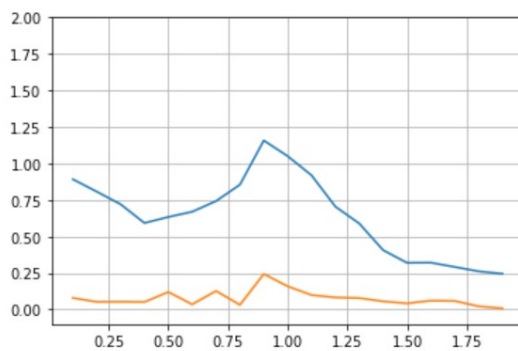


$d=100$, $n_{\text{train}} = 300$, $n_{\text{test}} = 300$, $N = 30 \rightarrow 600$

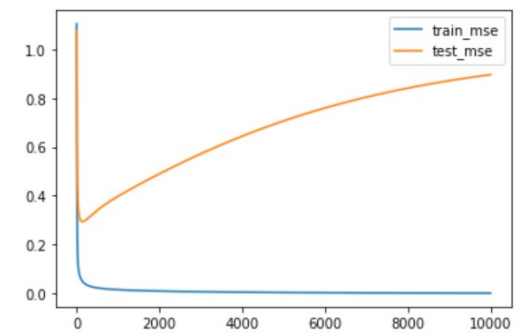
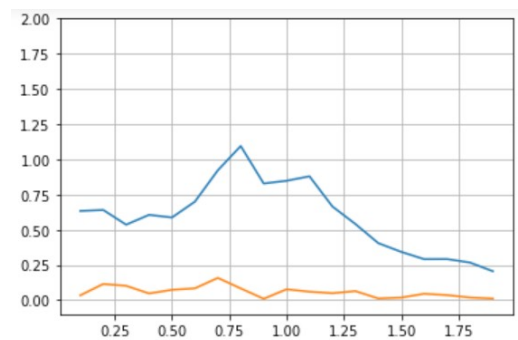
Relu, $\text{nb_iterations} = 10000$, $\text{batch_size} = 30$, $\text{learning_rate2} = 0.01$

Moyenne sur 3 itérations

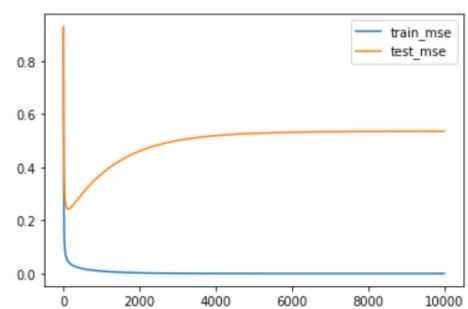
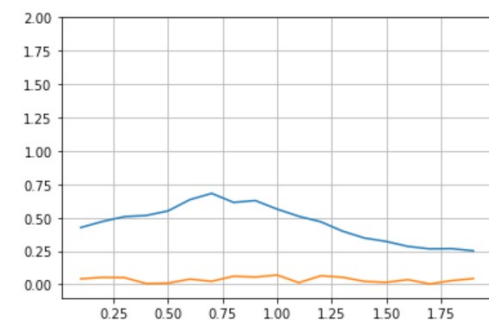
$\text{learning_rate1} = 10^{*(-8)}$



$\text{learning_rate2} = 10^{*(-5)}$



$\text{learning_rate2} = 10^{*(-4)}$



Utiliser Linear pour l'hidden layer et Relu pour l'output layer → stagne à 0.5
learning_rate1 = 0.01, learning_rate2 = 0 → stagne à 0.2
Les deux en même temps → stagne à 0.5