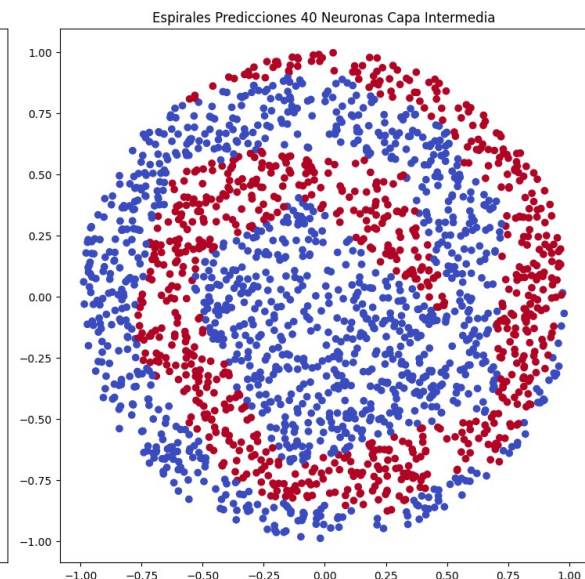
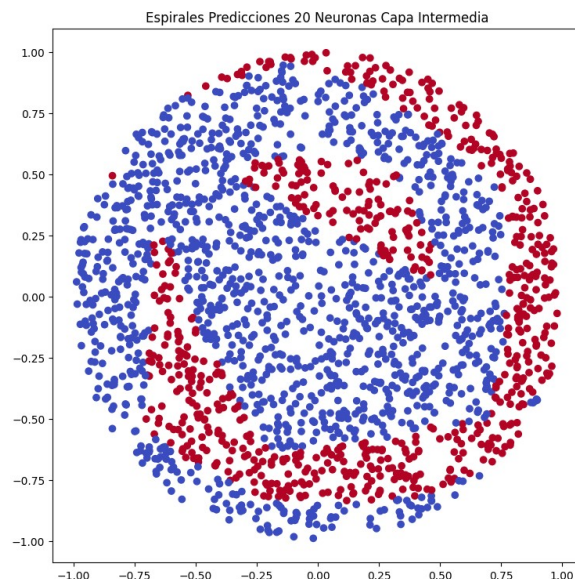
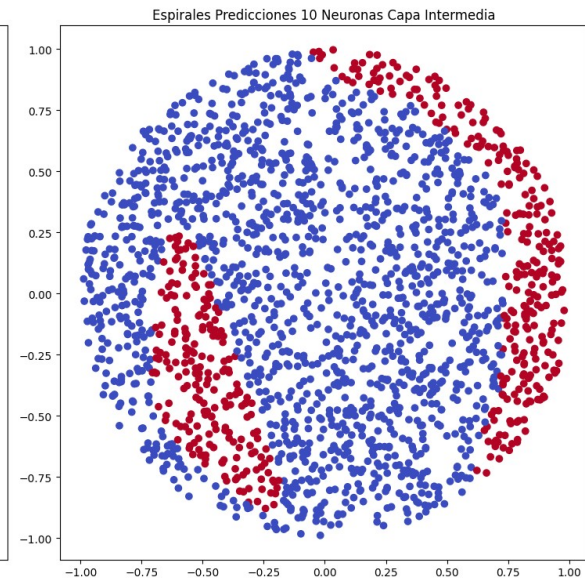
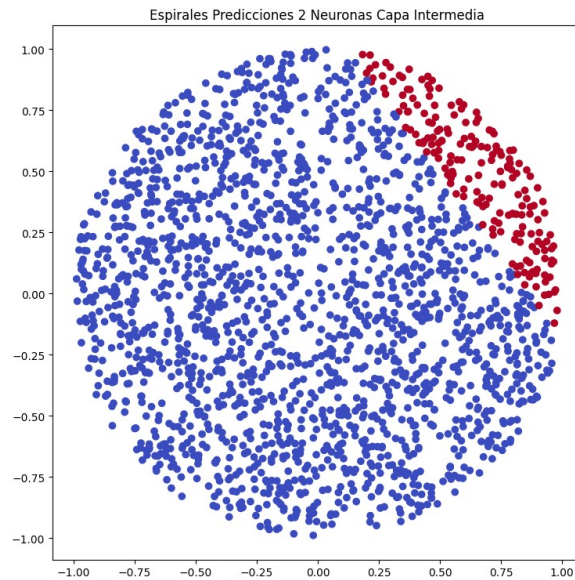


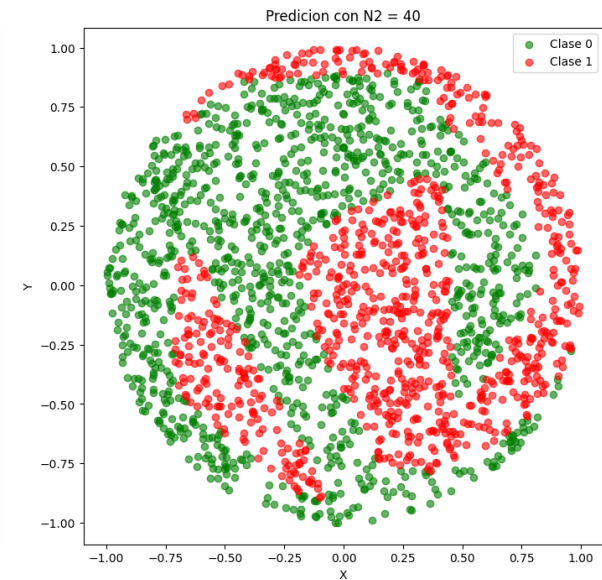
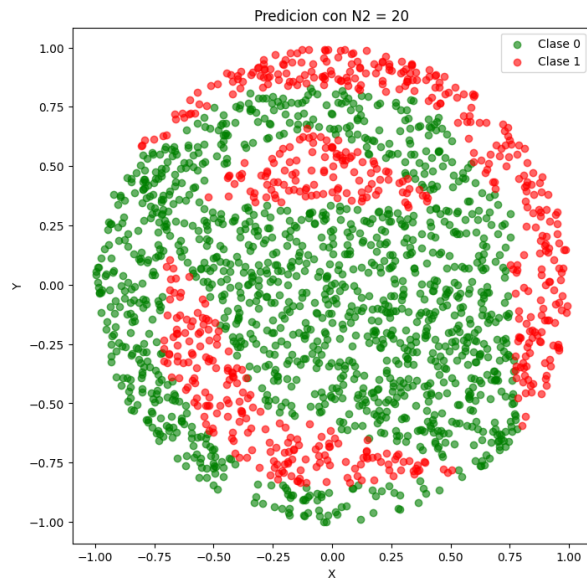
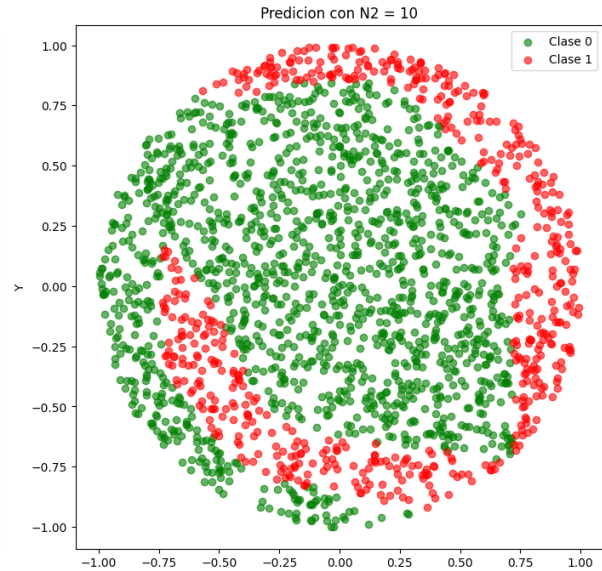
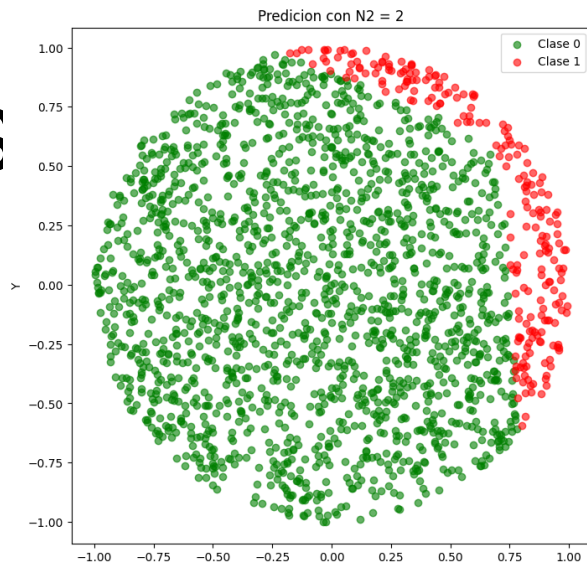
# IIA-IAA 24

## Discusión TP Redes

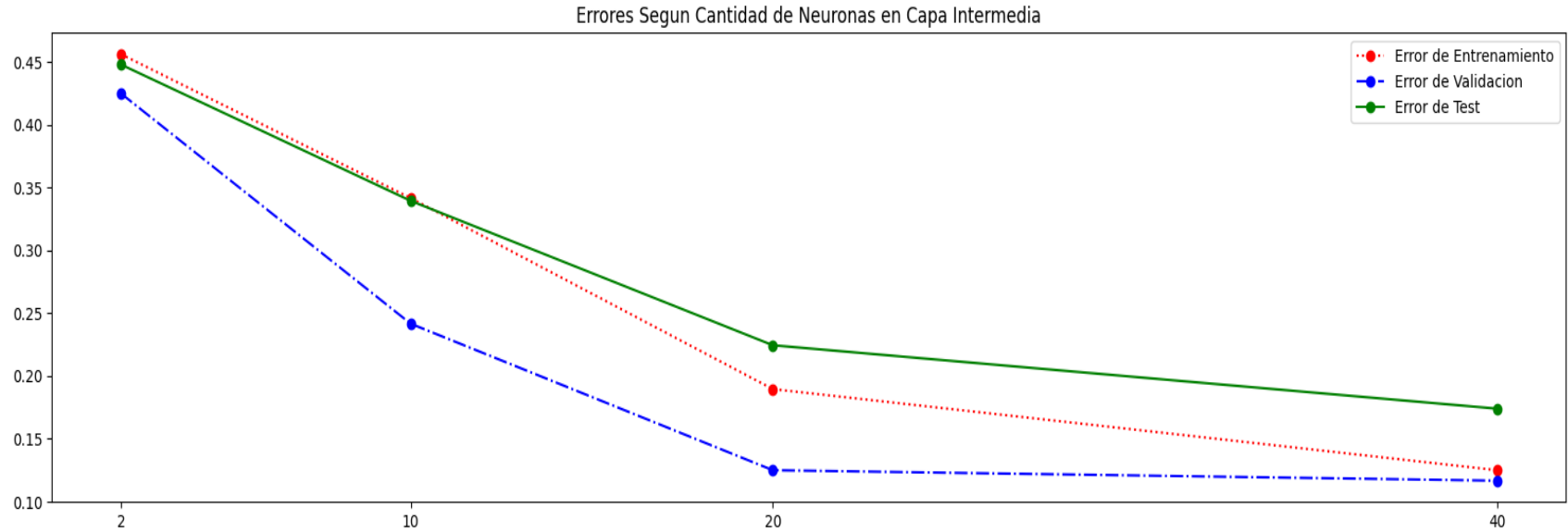
# Ej 1 - Resultados



# Ej 1 - Resultados



# Ej 1 - Resultados



-Entrenar redes es difícil :)

-Al aumentar N2 se complica el entrenamiento, y es más probable terminar en mínimos locales malos

# Ej 2 - Resultados

## ETA 0.1

- $\alpha = 0 \Rightarrow$  minimo 0.0644
- $\alpha = 0.5 \Rightarrow$  minimo 0.0492 <-
- $\alpha = 0.9 \Rightarrow$  minimo 0.0612

## ETA 0.01

- $\alpha = 0 \Rightarrow$  minimo 0.2326
- $\alpha = 0.5 \Rightarrow$  minimo 0.2080
- $\alpha = 0.9 \Rightarrow$  minimo 0.1042 <-

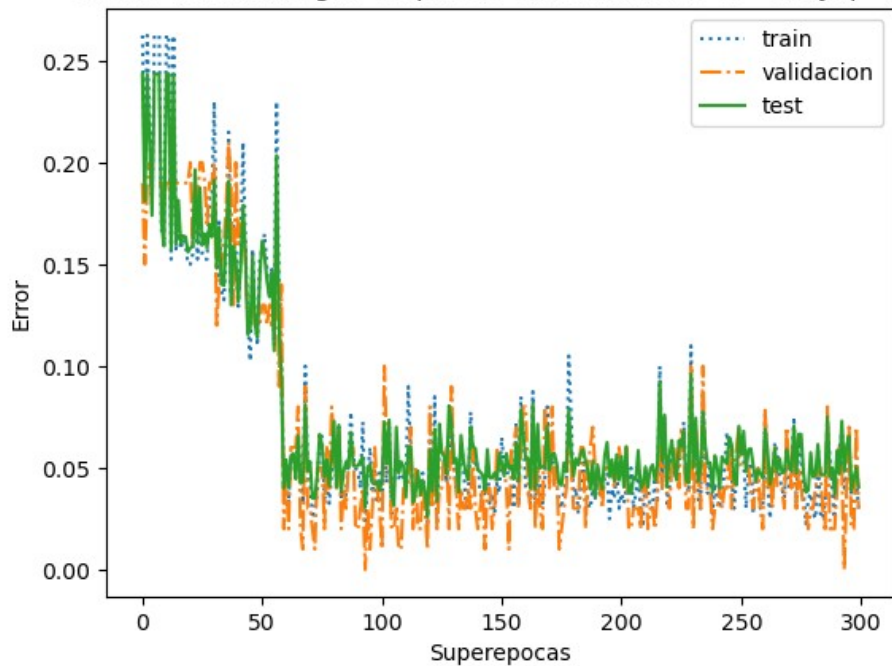
## ETA 0.001

- $\alpha = 0 \Rightarrow$  minimo 0.2435
- $\alpha = 0.5 \Rightarrow$  minimo 0.2435
- $\alpha = 0.9 \Rightarrow$  minimo 0.2376 <-

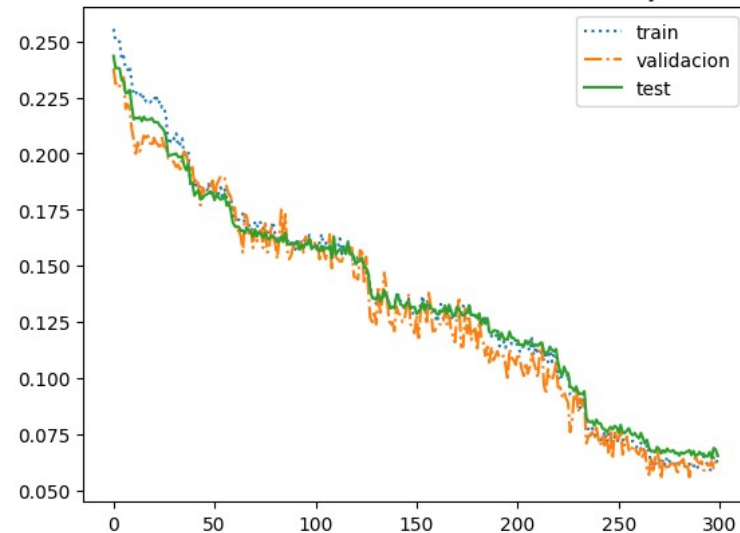
	$\eta = 0.1$	$\eta = 0.01$	$\eta = 0.001$
$\alpha = 0$	0.133	0.244	0.239
$\alpha = 0.5$	0.096	0.197	0.244
$\alpha = 0.9$	0.076	0.146	0.233

# Ej 2 - Resultados

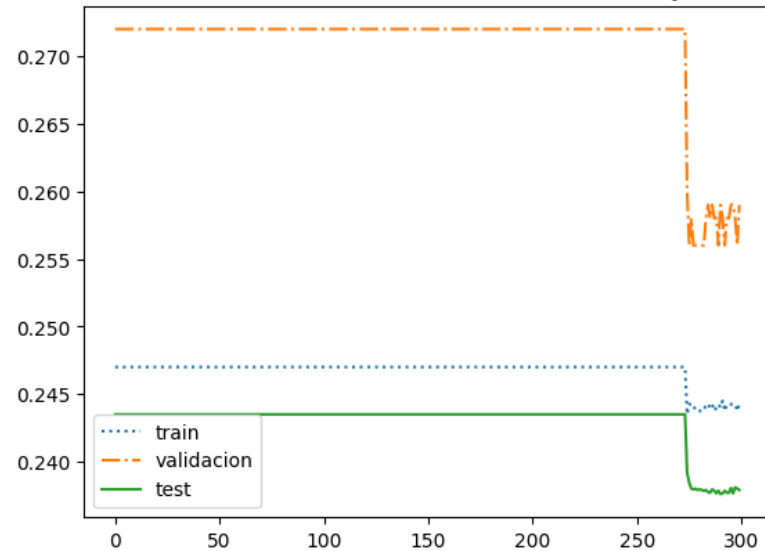
Curvas de error según etapas de entrenamiento  $\alpha = 0.9$  y  $\eta = 0.1$



Promedio de las 10 evaluaciones usando eta 0.1 y alfa 0



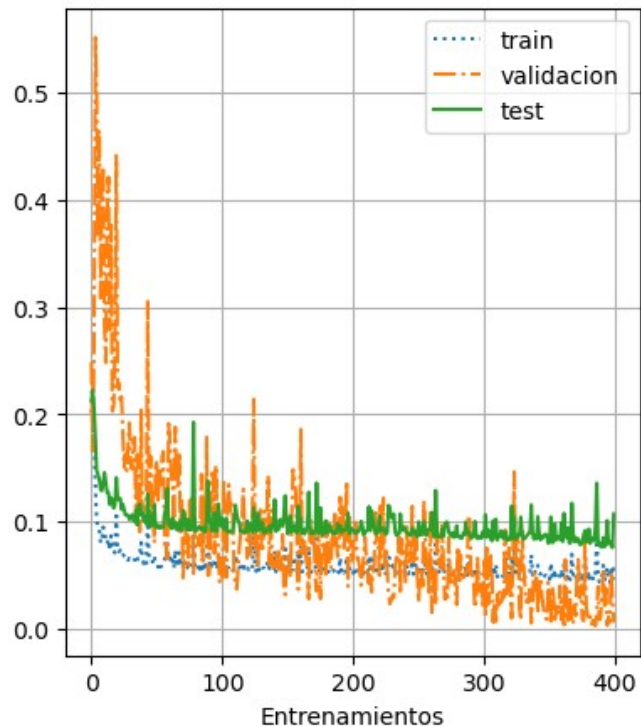
Promedio de las 10 evaluaciones usando eta 0.001 y alfa 0.9



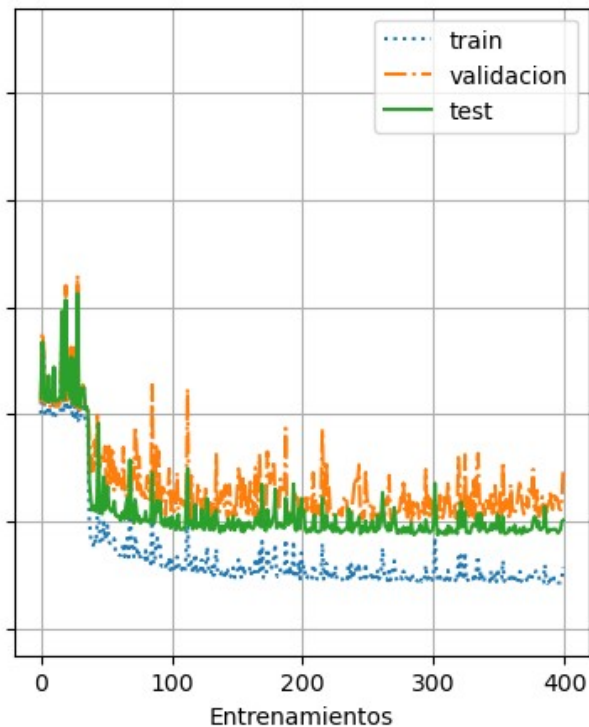


# Ej 3 - Resultados

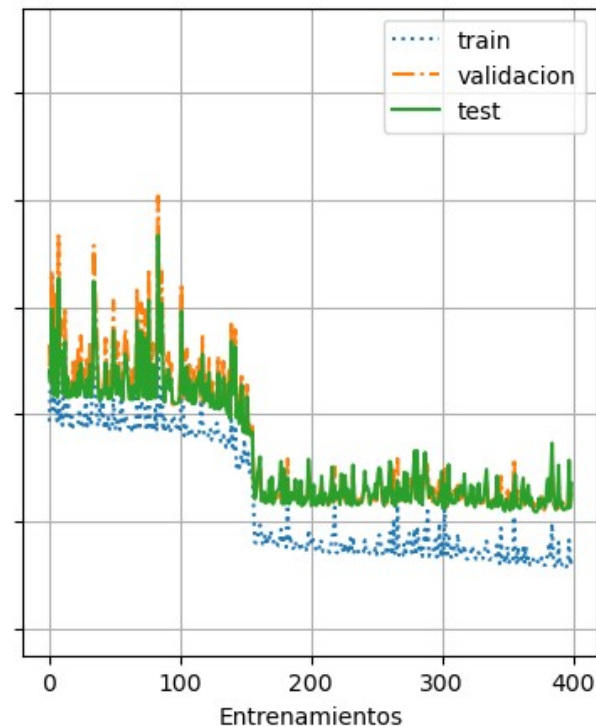
Error en modelo 95-5



Error en modelo 75-25

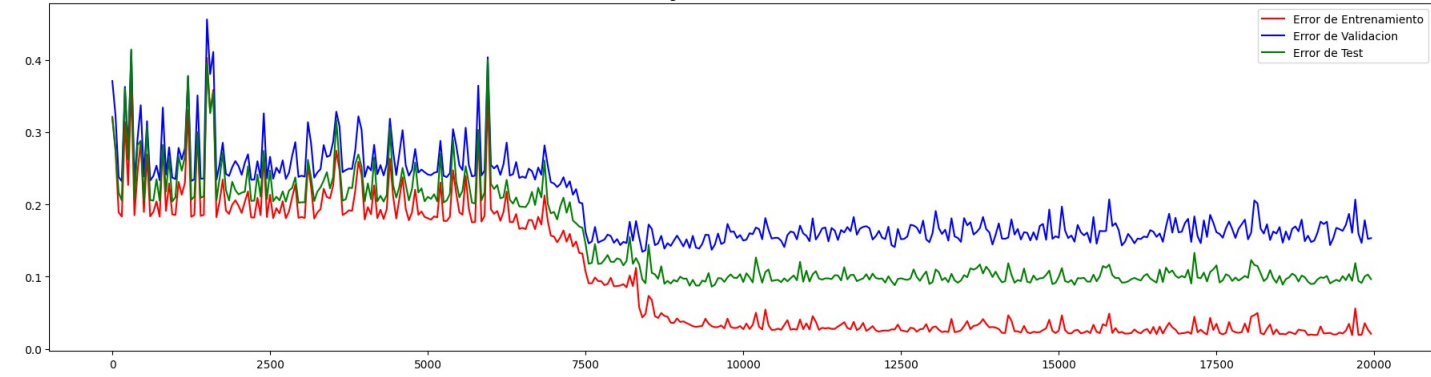
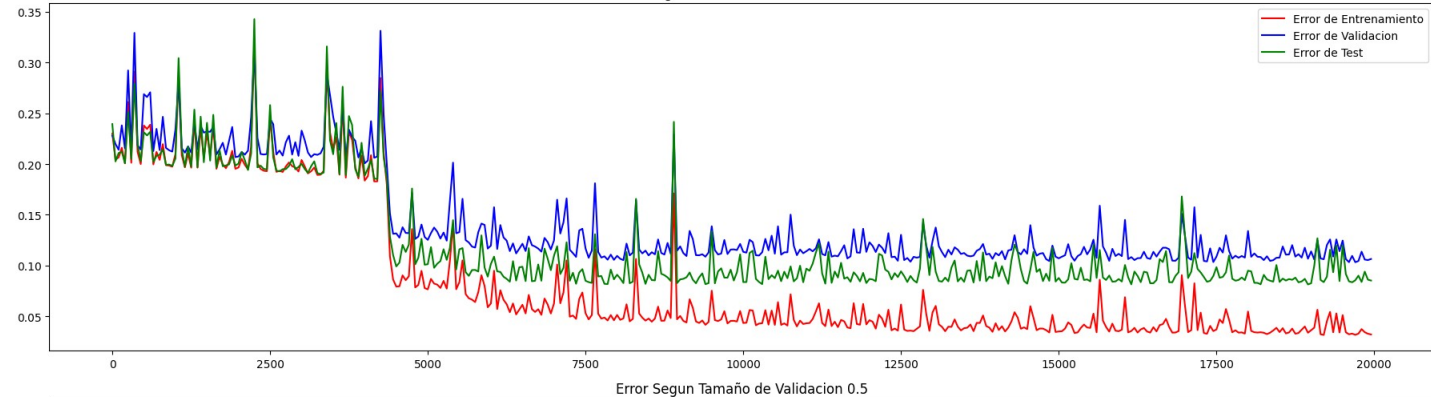
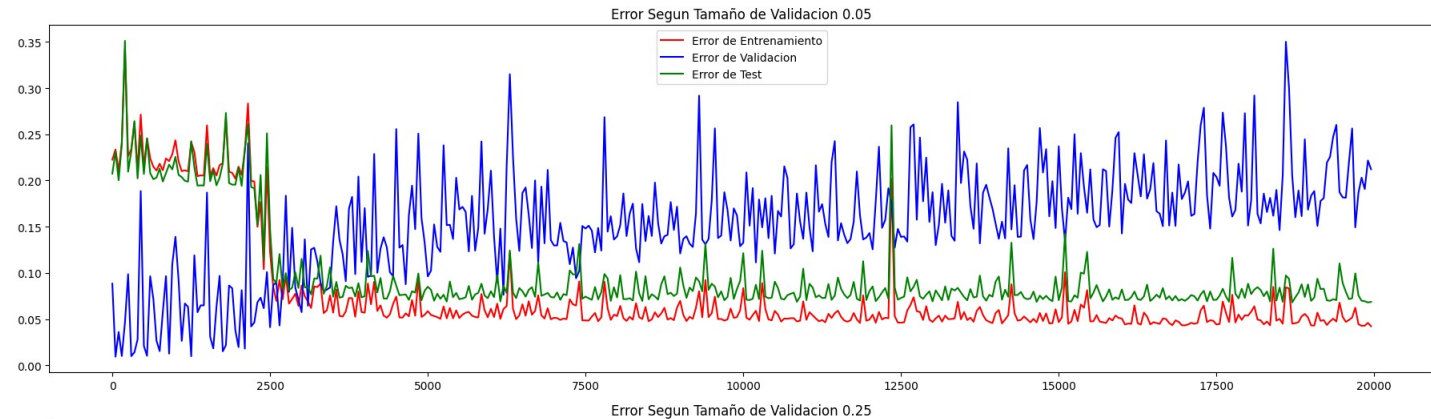


Error en modelo 50-50



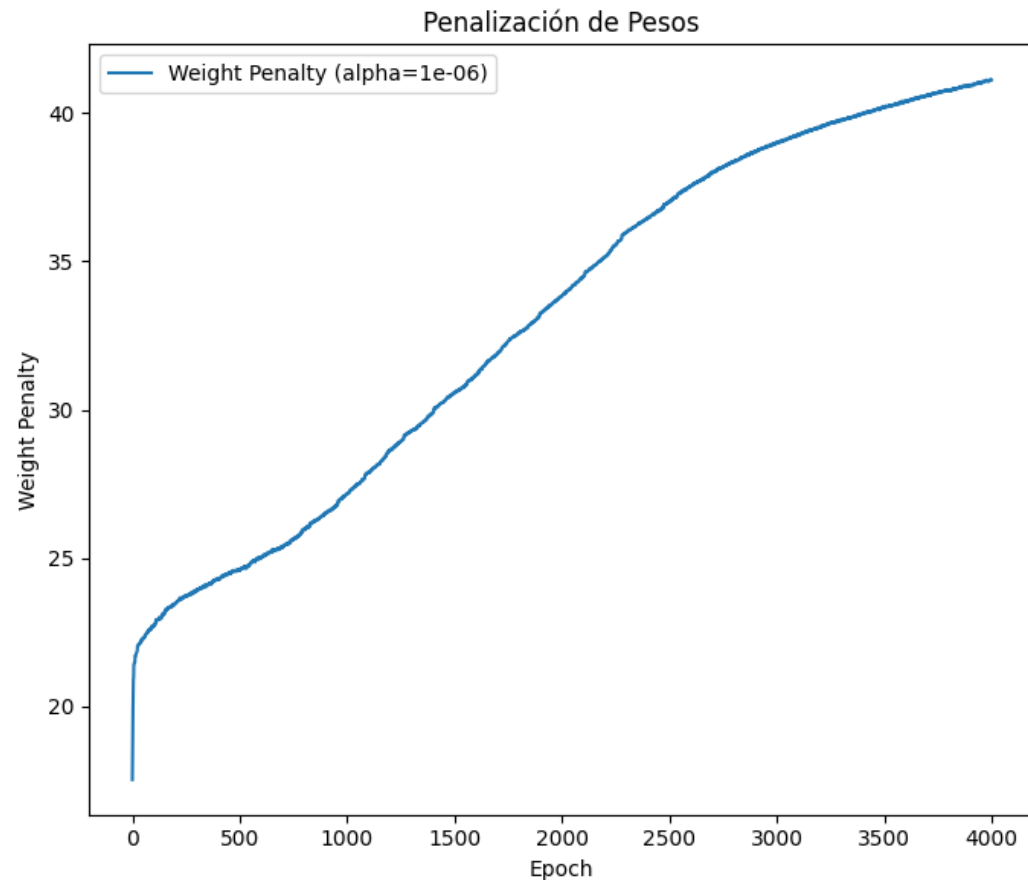
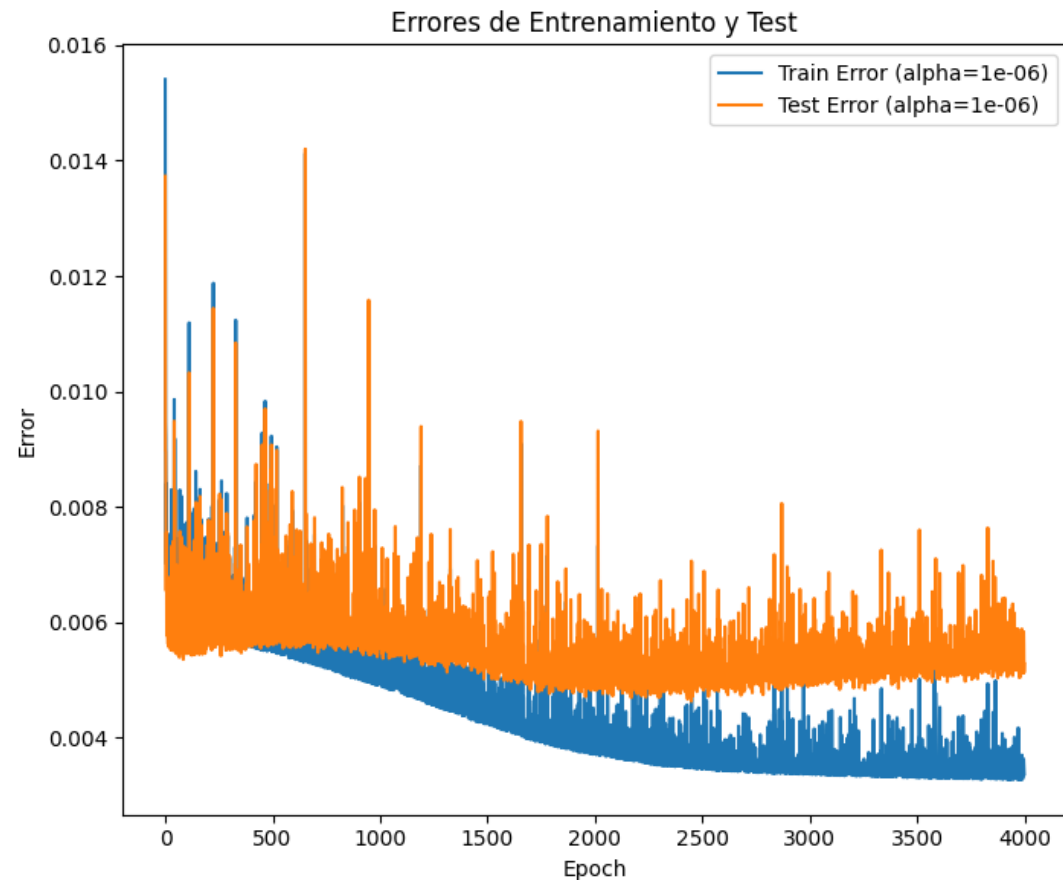
# Ej 3

## Resultados



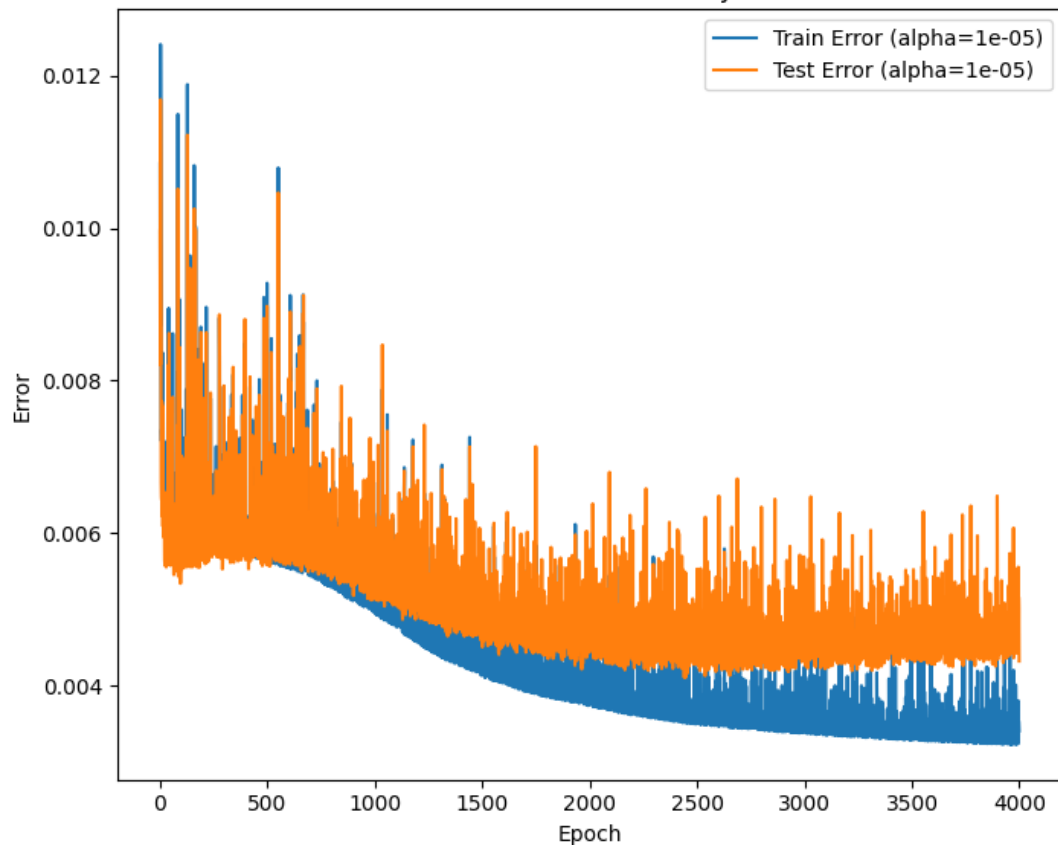


# Ej 4 - Resultados

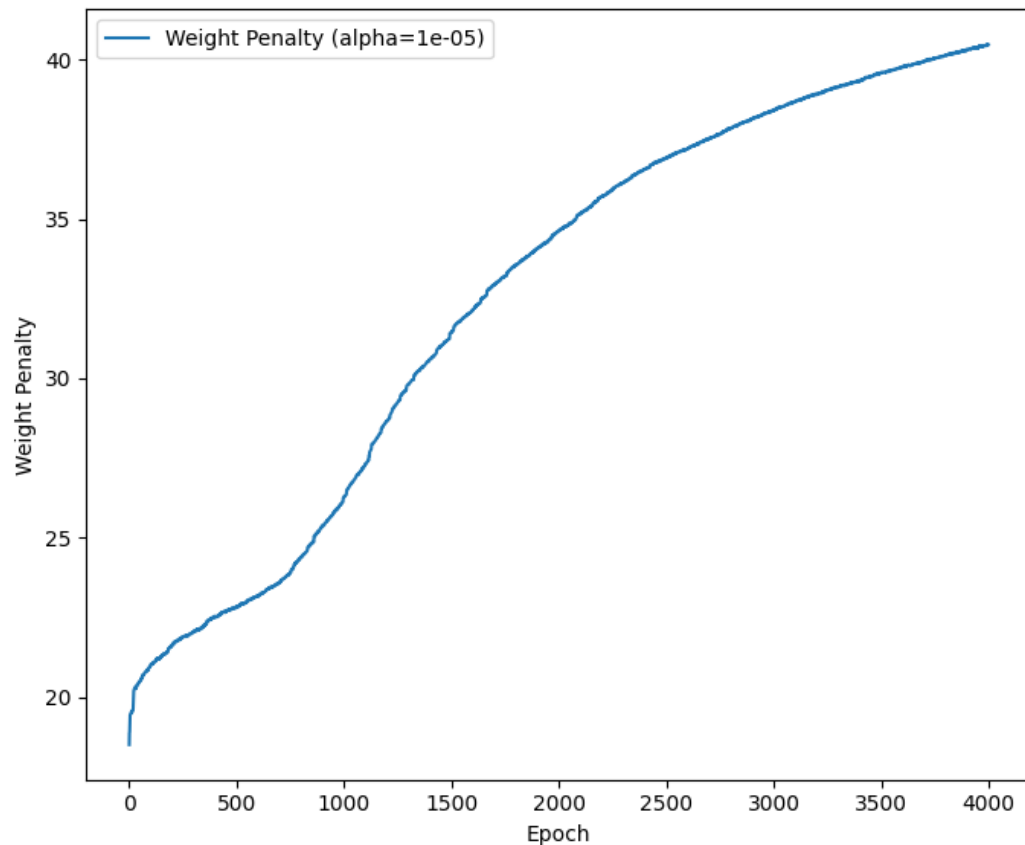


# Ej 4 - Resultados

Errores de Entrenamiento y Test

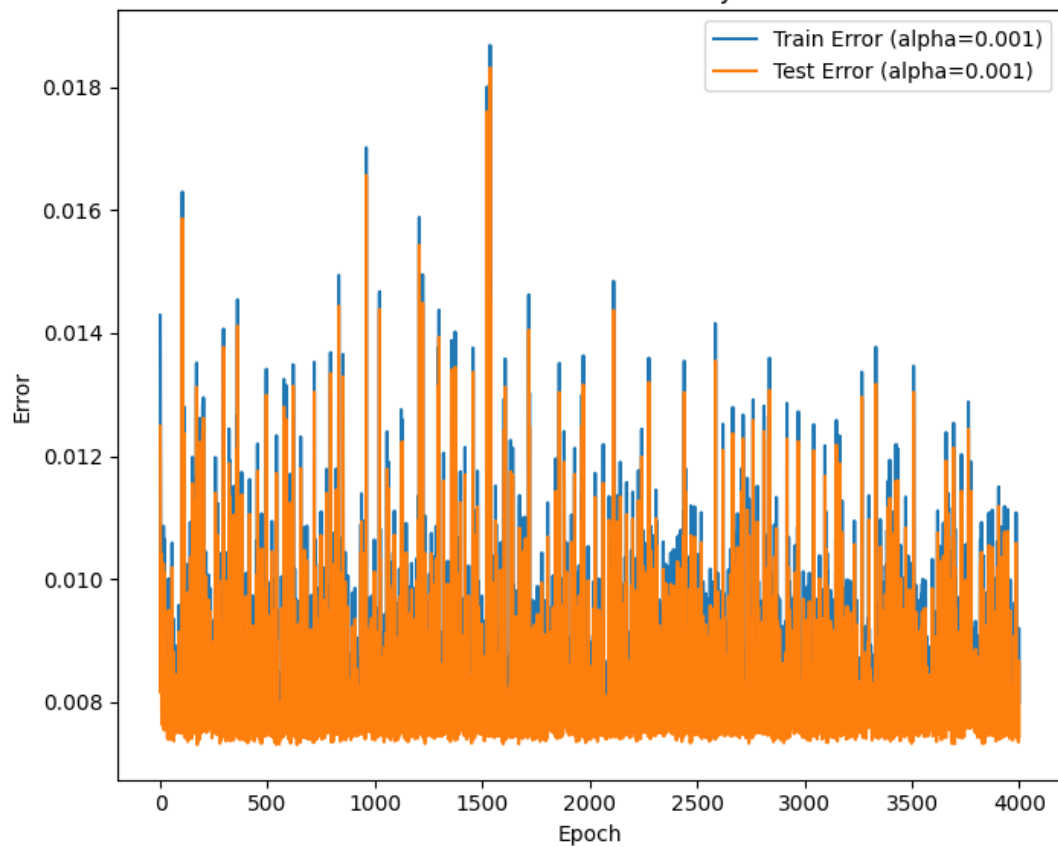


Penalización de Pesos

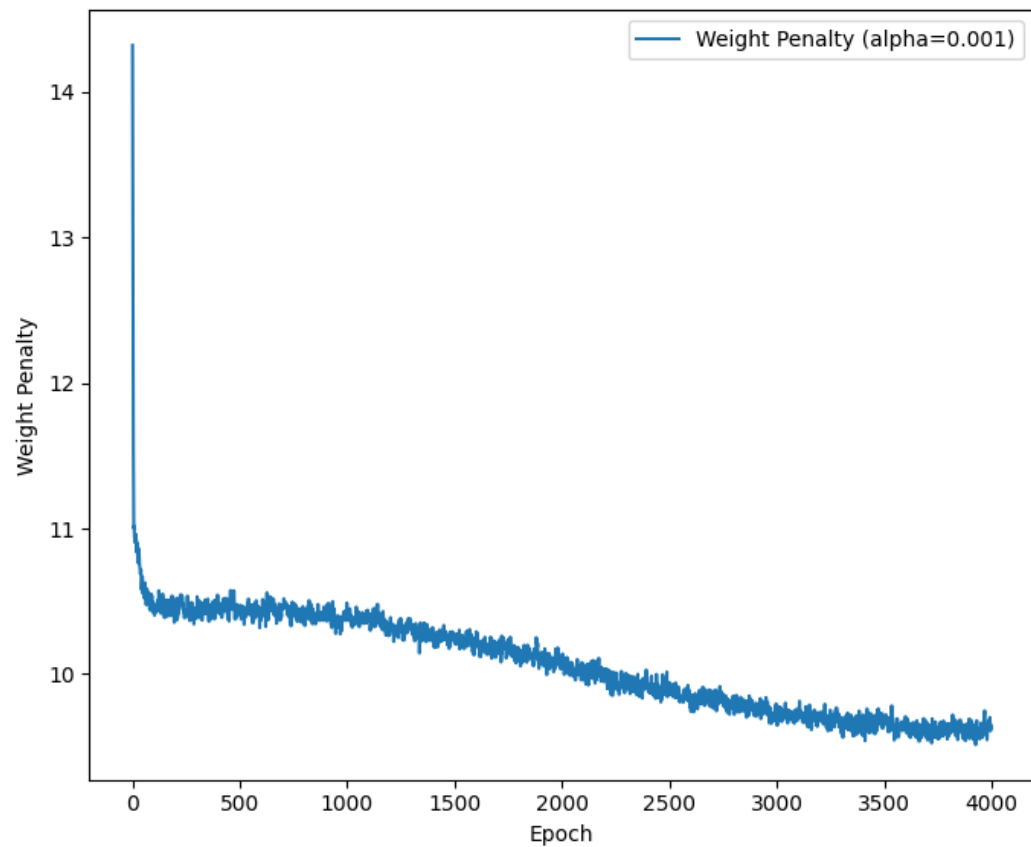


# Ej 4 - Resultados

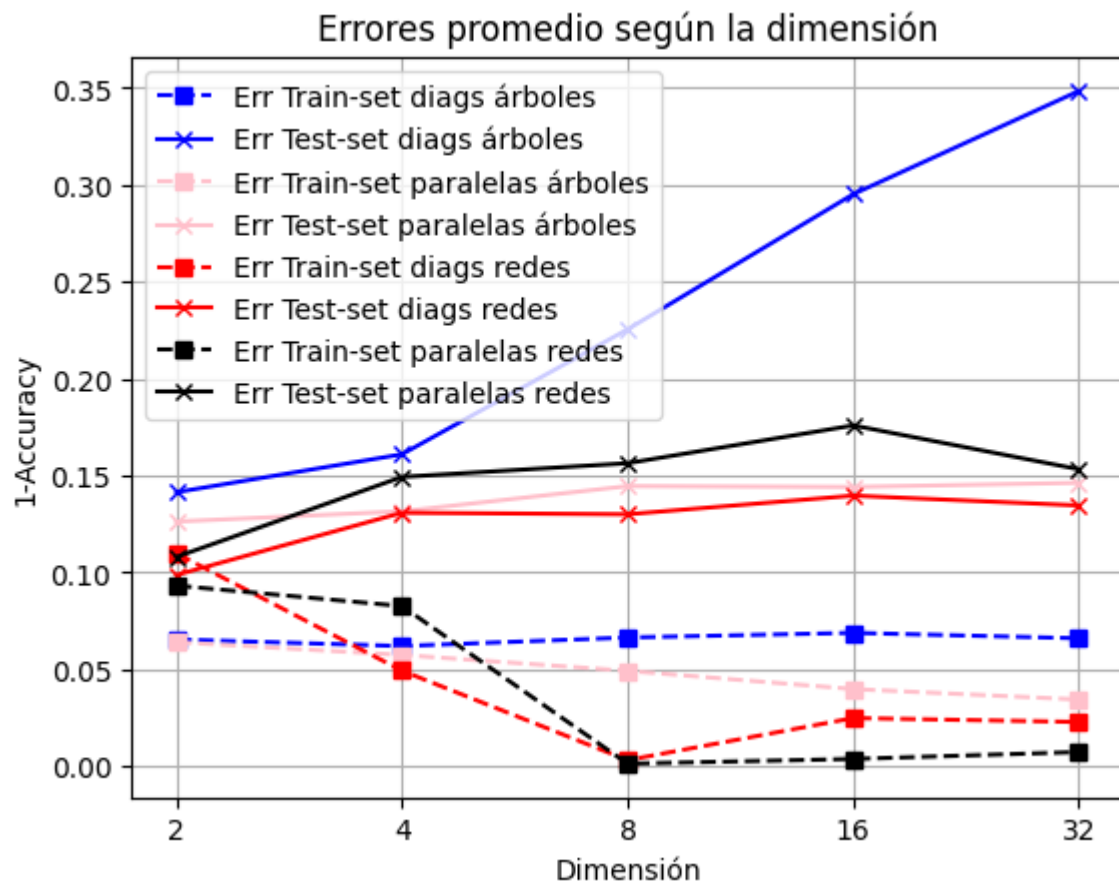
Errores de Entrenamiento y Test



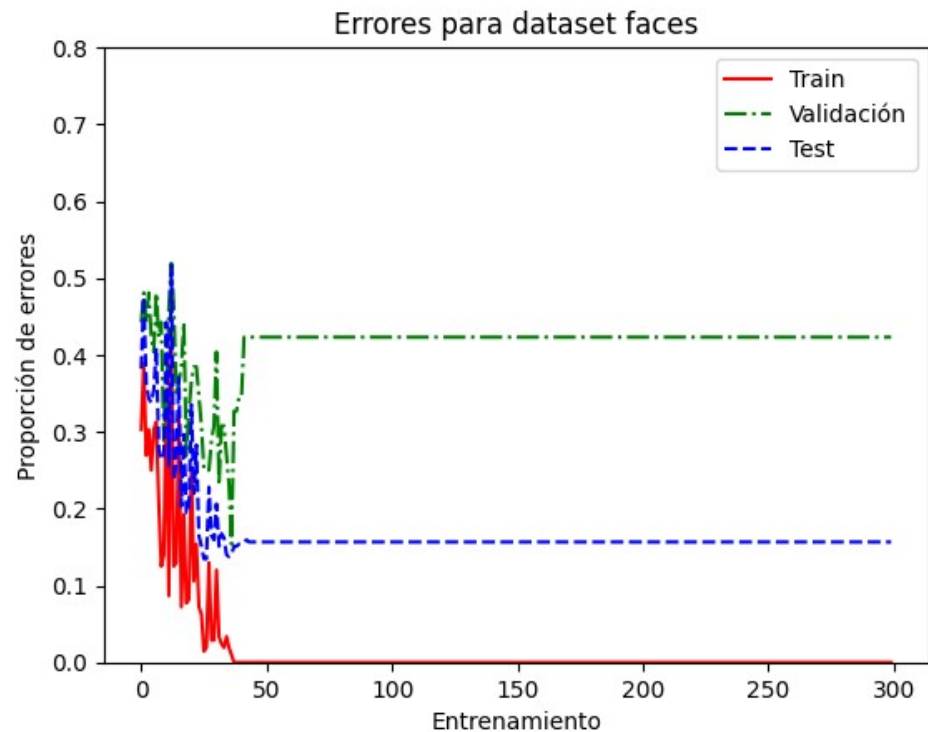
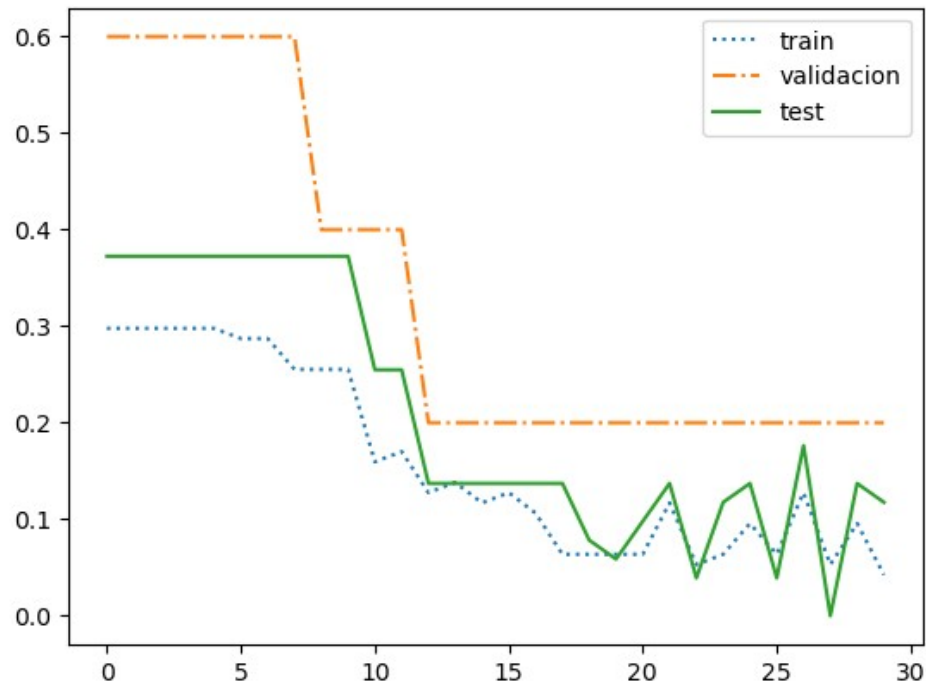
Penalización de Pesos



# Ej 5 - Resultados

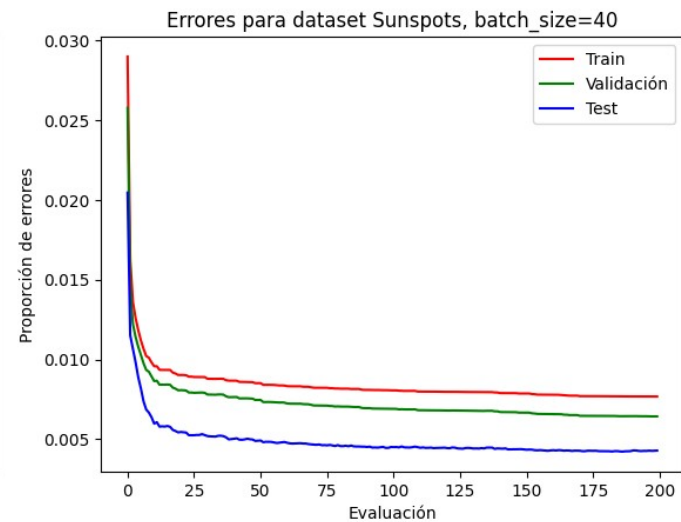
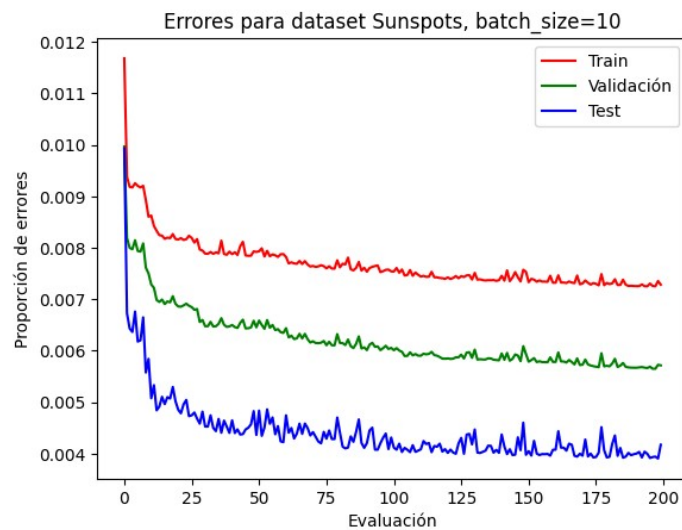
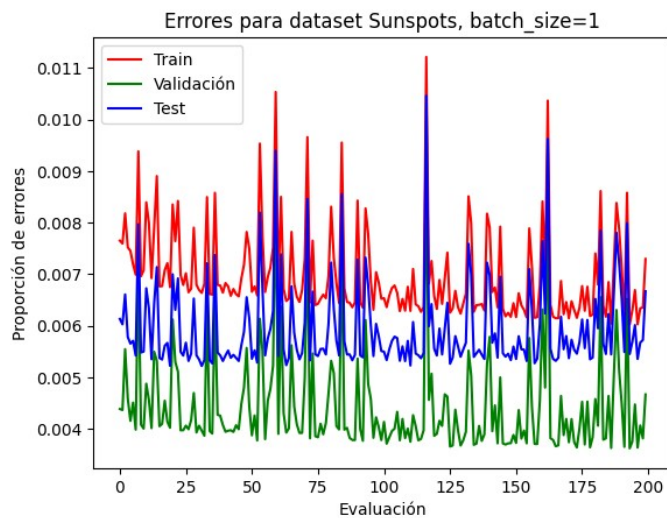


# Ej 6 - Resultados





# Ej 7 - Resultados



# Ej 7 - Resultados

