Opération : ouverture Jeu : MNIST									
		cross3	cross7	disk2	disk3	diamond3	complex	adiag	brand
$Initial is ation \\ al\'{e}atoire$	$oldsymbol{w}_1/oldsymbol{w}_2$								
	$lpha_1 \ lpha_2$	-0.40 ± 0.001 -1.29 ± 0.004	-59.42 ± 0.06 63.19 ± 0.07	-58.12 ± 0.10 63.23 ± 0.02	-58.47 ± 0.07 65.01 ± 0.04	-60.90 ± 0.05 65.04 ± 0.01	-39.62 ± 0.66 67.98 ± 0.68	-61.29 ± 0.07 60.72 ± 0.06	-58.97 ± 0.12 63.88 ± 0.02
	$RMSE_1$	$0.39 \pm 1 \times 10^{-3}$	$0.01 \pm 8 \times 10^{-4}$	$0.03 \pm 5 \times 10^{-4}$	$0.004 \pm 7 \times 10^{-4}$	$0.004 \pm 1 \times 10^{-3}$	$0.01 \pm 2 \times 10^{-3}$	$0.03 \pm 8 \times 10^{-3}$	$0.05 \pm 5 \times 10^{-3}$
	$RMSE_2$	$0.39 \pm 1 \times 10^{-3}$	$0.01 \pm 8 \times 10^{-4}$	$0.03 \pm 5 \times 10^{-4}$	$0.004 \pm 8 \times 10^{-4}$	$0.004 \pm 1 \times 10^{-3}$	$0.01 \pm 3 \times 10^{-3}$	$0.03 \pm 8 \times 10^{-3}$	$0.05 \pm 5 \times 10^{-3}$
	LOSS	$1.6 \times 10^{-2} \pm 2 \times 10^{-5}$	$2.1 \times 10^{-6} \pm 5 \times 10^{-7}$	$6.2 \times 10^{-6} \pm 7 \times 10^{-7}$	$1.2 \times 10^{-6} \pm 2 \times 10^{-7}$	$1.9 \times 10^{-6} \pm 2 \times 10^{-7}$	$2.3 \times 10^{-6} \pm 1 \times 10^{-6}$	$4.0 \times 10^{-6} \pm 7 \times 10^{-7}$	$1.8 \times 10^{-6} \pm 6 \times 10^{-7}$
	EPOCHS	29 ± 7	38 ± 4	33 ± 5	41 ± 6	36 ± 6	40 ± 6	45 ± 13	39 ± 10
Initialisation gaussienne	$oldsymbol{w_1/w_2}$								
	$lpha_1 \ lpha_2$	-61.07 ± 0.25 61.35 ± 0.05	-59.33 ± 0.10 63.21 ± 0.01	-48.68 ± 21.34 52.62 ± 23.75	-58.46 ± 0.03 65.02 ± 0.01	-60.94 ± 0.03 65.05 ± 0.01	-39.04 ± 0.44 68.55 ± 0.46	-61.30 ± 0.02 60.69 ± 0.03	-58.97 ± 0.12 63.90 ± 0.01
	$RMSE_1$	$0.009 \pm 2 \times 10^{-4}$	$0.01 \pm 2 \times 10^{-3}$	$0.11 \pm 2 \times 10^{-1}$	$0.004 \pm 1 \times 10^{-3}$	$0.003 \pm 4 \times 10^{-4}$	$0.01 \pm 2 \times 10^{-3}$	$0.02 \pm 6 \times 10^{-3}$	$0.05 \pm 4 \times 10^{-3}$
	$RMSE_2$	$0.009 \pm 2 \times 10^{-4}$	$0.01 \pm 2 \times 10^{-3}$	$0.11 \pm 2 \times 10^{-1}$	$0.004 \pm 1 \times 10^{-3}$	$0.003 \pm 4 \times 10^{-4}$	$0.01 \pm 2 \times 10^{-3}$	$0.02 \pm 6 \times 10^{-3}$	$0.05 \pm 4 \times 10^{-3}$
	LOSS	$8.3 \times 10^{-6} \pm 4 \times 10^{-7}$	$2.1 \times 10^{-6} \pm 6 \times 10^{-7}$	$2.3 \times 10^{-3} \pm 5 \times 10^{-3}$	$1.8 \times 10^{-6} \pm 3 \times 10^{-7}$	$1.5 \times 10^{-6} \pm 5 \times 10^{-7}$	$1.6 \times 10^{-6} \pm 3 \times 10^{-7}$	$3.8 \times 10^{-6} \pm 9 \times 10^{-7}$	$2.1 \times 10^{-6} \pm 6 \times 10^{-7}$
	EPOCHS	34 ± 4	34 ± 4	33 ± 7	37 ± 6	42 ± 9	43 ± 5	47 ± 13	33 ± 3