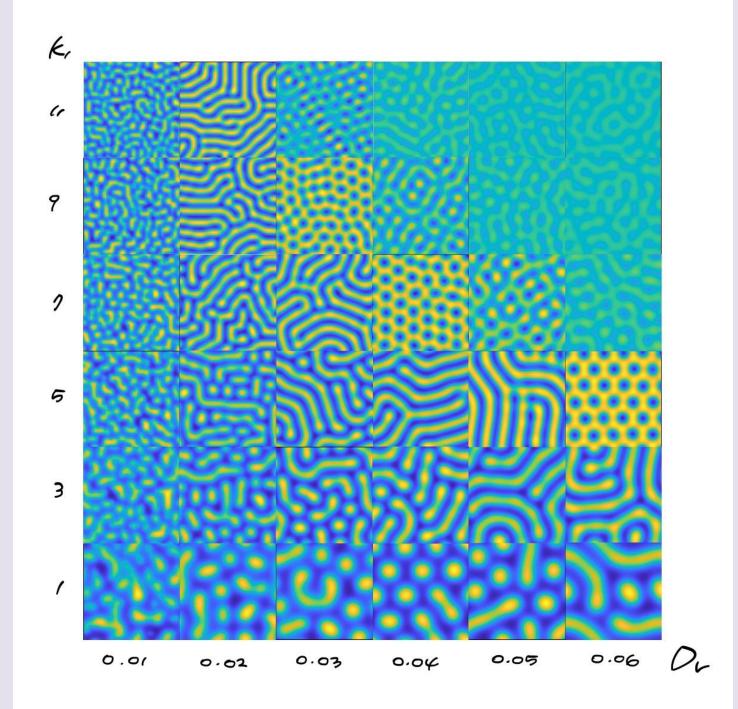
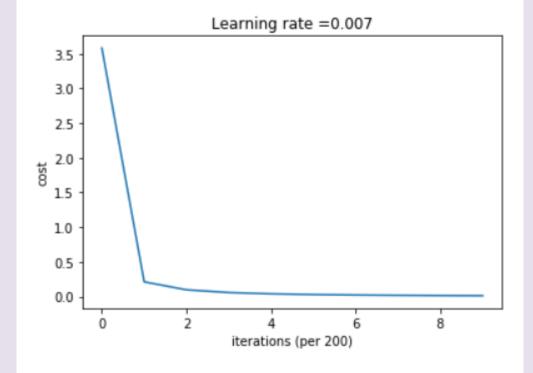
Dissimilar	train :100		train : 250		train : 500		train :1000	
	all : 144		all : 360		all : 720		all : 1440	
1) <u>Cnn</u>	100 /	1.0 1.0	100 /	1.0 1.0	100 /	1.0 1.0	100 /	1.0 1.0
2) 1-layer with GD	2000/	0.99	2000/	0.78	2000/	0.67	2000/	0.60
	0.005/	0.43	0.005/	0.36	0.004/	0.36	0.004/	0.43
3) 1layer with Adam	2000/	1.0	2000/	1.0	2000/	0.79	2000/	0.71
	0.1/	0.47	0.1/	0.40	0.03/	0.36	0.01/	0.43
4) Derivative layer with GD	2000/	1.0	2000/	1.0	2000/	1.0	2000/	0.96
	10/	0.36	10/	0.37	10/	0.40	10/	0.34
5) Derivative layer	2000/	1.0	2000/	1.0	2000/	1.0	2000/	1.0
with Adam	1/	0.31	0.9/	0.37	0.9/	0.36	0.9/	0.34
6) 2weight with GD	2000/	1.0	2000/	0.79	2000/	0.68	2000/	0.58
	0.005/	0.43	0.005/	0.43	0.004/	0.42	0.004/	0.43
7) 2weight with Adam	2000/	1.0	2000/	1.0	2000/	1.0	2000/	0.96
	0.07/	0.38	0.06/	0.41	0.06/	0.44	0.06/	0.40
8) 2weight & 1-u^	2000/	0.98	2000/	0.88	2000/	0.73	2000/	0.67
with GD	0.001/	0.45	0.001/	0.40	0.001/	0.51	0.001/	0.49
9) 2weight & 1-u^	2000/	1.0	2000/	1.0	2000/	1.0	2000/	1.0
with Adam	0.04/	0.43	0.03/	0.43	0.03/	0.46	0.02/	0.50
10) 2weight & u-u^3	2000/	1.0	2000/	0.96	2000/	0.95	2000/	0.94
with GD	0.001/	0.77	0.001/	0.82	0.001/	0.90	0.001/	0.89
11) 2weight & u-u^3	600/	1.0	600/	1.0	600/	1.0	600/	1.0
with Adam	0.04/	0.88	0.04/	0.90	0.04/	0.90	0.04/	0.90

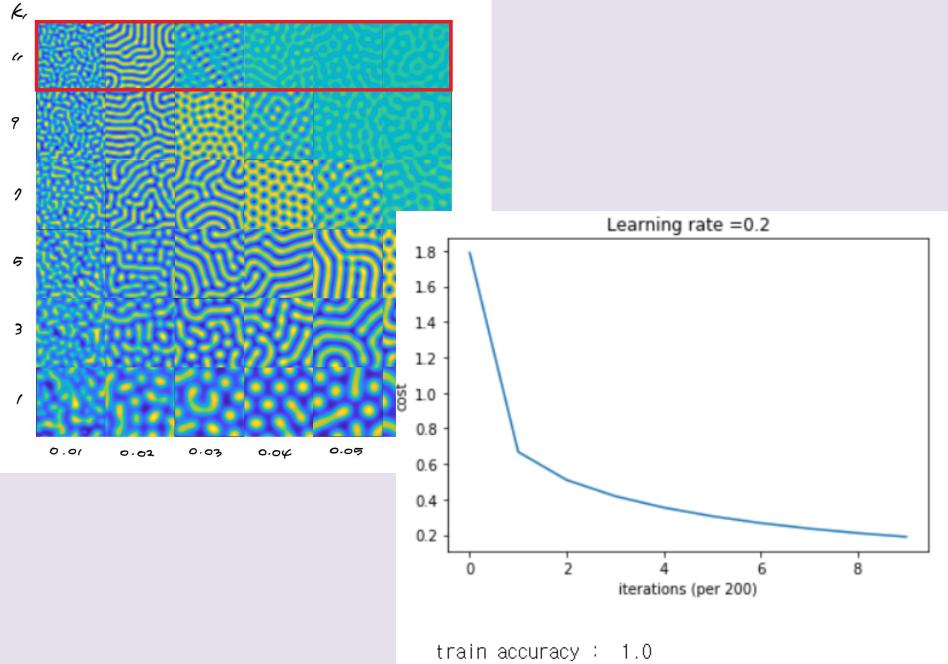


Cost after iteration 0: 3.579905
Cost after iteration 200: 0.211312
Cost after iteration 400: 0.096181
Cost after iteration 600: 0.057108
Cost after iteration 800: 0.038579
Cost after iteration 1000: 0.028171
Cost after iteration 1200: 0.021629
Cost after iteration 1400: 0.017185
Cost after iteration 1600: 0.013993
Cost after iteration 1800: 0.011605

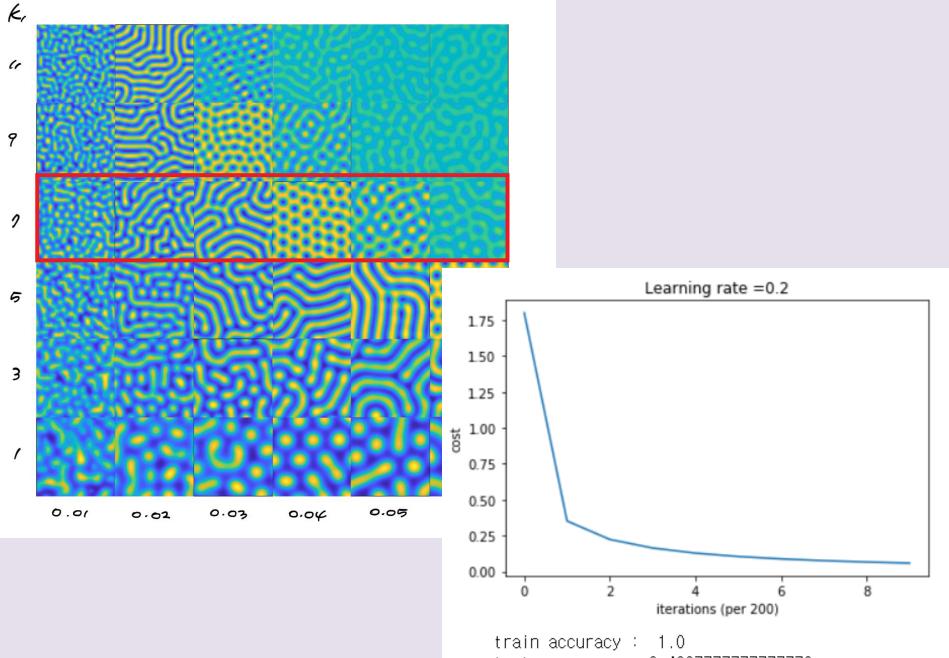


train accuracy: 1.0

test accuracy: 0.14814814814814



test accuracy: 0.30092592592592593



test accuracy : 0.40277777777778

