Practica 5

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Eje 3

Num of processors / n	2	8
10^3	0.000378	0.019386
10^7	0.197221	1.719871

Eje 4

Num of processors / n	2	8
10^3	0.000525	0.004336
10^7	0.604119	1.124867

Point-to-point communication is faster when using 2 processors, but when using 8 processors, broadcasting is faster. That means broadcasting is more efficient when using many processors.
In scenarios with a small number of processors, the simplicity and directness of point-to-point communication can result in faster communication, while broadcasting becomes more advantageous as the number of processors increases

Eje 5

point-to-point communication		
Num of processors / **n**	**2**	**8**
10^3	0.000906	0.006112
10^7	0.678176	1.279257

MPI reduction function		
Num of processors / **n**	**2**	**8**
10^3	0.000550	0.004842
10^7	0.000256	0.031345

Using MPI communication is faster than point-to-point communication, especially for larger amounts of data.