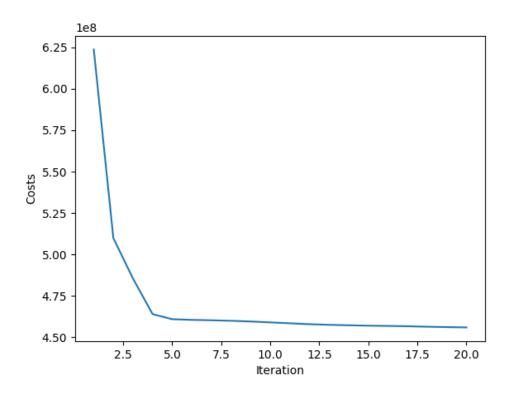
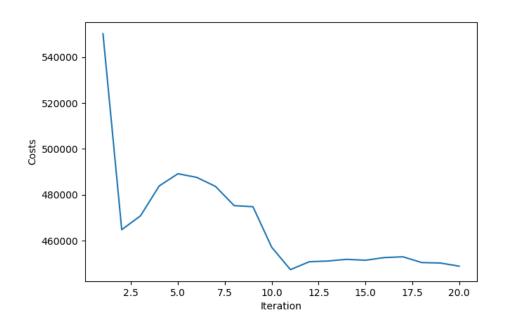
Jason Weng HW3

Question 1 Euclidian Costs:



Manhattan Costs:



Question 2

r=2, b=5

- $1-(1-[0.1]^2)^5 = 0.0490099501$
- $1-(1-[0.2]^2)^5 = 0.1846273024$
- $1-(1-[0.3]^2)^5 = 0.3759678549$
- $1-(1-[0.4]^2)^5 = 0.5817880576$
- $1-(1-[0.5]^2)^5 = 0.7626953125$
- $1-(1-[0.6]^2)^5 = 0.8926258176$
- $1-(1-[0.7]^2)^5 = 0.9654974749$
- $1-(1-[0.8]^2)^5 = 0.9939533824$
- $1-(1-[0.9]^2)^5 = 0.9997523901$

r=6, b=15

- $1-(1-[0.1]^6)^15 = 0.00001499989$
- $1-(1-[0.2]^6)^15 = 0.00095957003$
- $1-(1-[0.3]^6)^15 = 0.01087937458$
- $1-(1-[0.4]^6)^15 = 0.0597092789$
- $1-(1-[0.5]^6)^15 = 0.21039728666$
- $1-(1-[0.6]^6)^15 = 0.51163496309$
- $1-(1-[0.7]^6)^15 = 0.84702490434$
- $1-(1-[0.8]^6)^15 = 0.98953897602$
- 1-(1-[0.9]^6)^15 = 0.99998847968

r=4, b=30

- $1-(1-[0.1]^4)^30 = 0.00299565405$
- $1-(1-[0.2]^4)^30 = 0.04690285164$
- $1-(1-[0.3]^4)^30 = 0.21650413664$
- $1-(1-[0.4]^4)^30 = 0.54067693022$
- $1-(1-[0.5]^4)^30 = 0.85574253638$
- 1-(1-[0.6]^4)^30 = 0.98445586817
- $1-(1-[0.7]^4)^30 = 0.99973533693$
- $1-(1-[0.8]^4)^30 = 0.99999986373$
- $1-(1-[0.9]^4)^30 = 0.99700434594$