

DESIGN	PROS	CONS
2	-Polar coordinates will be accessible quickly -Non redundant code - Less storage taken up compared to storing both forms	-Cartesian coordinates take long time to convert -less efficient with computation
3	-Cartesian coordinates will be accessible quickly - More readable code - Less storage taken up compared to storing both forms	-Polar coordinates will take longer to retrieve -less efficient in computation
5	-Very readable code -Allows for unique implementation of subclasses	- Requires type casting which is not a best way to program

Time elapsed for getRho(CP5(2)): 0.006
 Time elapsed for getTheta(CP5(2)): 0.007
 Time elapsed for getX(CP5(2)): 0.007
 Time elapsed for getY(CP5(2)): 0.008
 Time elapsed for getDistance(CP5(2)): 0.013000000000000001
 Time elapsed for getRho(CP5(3)): 0.009000000000000001
 Time elapsed for getTheta(CP5(3)): 6.1610000000000005
 Time elapsed for getX(CP5(3)): 0.005
 Time elapsed for getY(CP5(3)): 0.006
 Time elapsed for getDistance(CP5(3)): 0.005

Process finished with exit code 0

ime elapsed for getRho(CP2): 0.005
 Time elapsed for getTheta(CP2): 0.003
 Time elapsed for getX(CP2): 0.004
 Time elapsed for getY(CP2): 0.005
 Time elapsed for getDistance(CP2): 0.011

Process finished with exit code 0