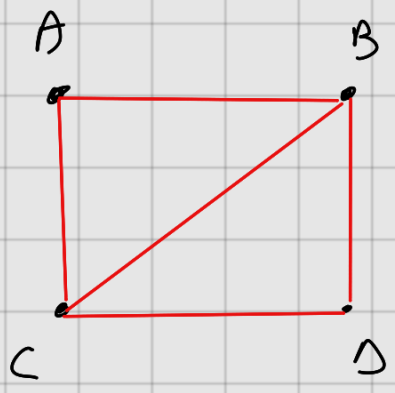
	x	y
A	707	47
B	925	317
C	796	770
D	32	823

	A	B	C	D
A	-	1	1	-
B	1	-	1	1
C	1	1	-	1
D	-	1	1	-



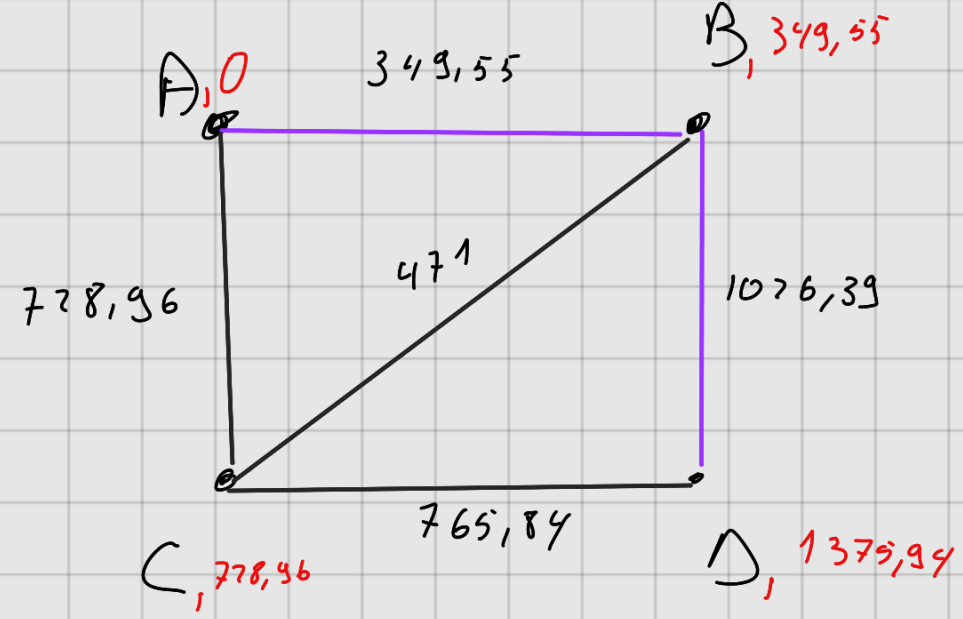
$$distance = ((x_2-x_1)^2 + (y_2-y_1)^2)^{0,5}$$

a)

	A	B	C	D
A	0	349,55	728,96	0
B	349,55	0	471	1026,39
C	728,96	471	0	765,84
D	0	1026,39	765,84	0

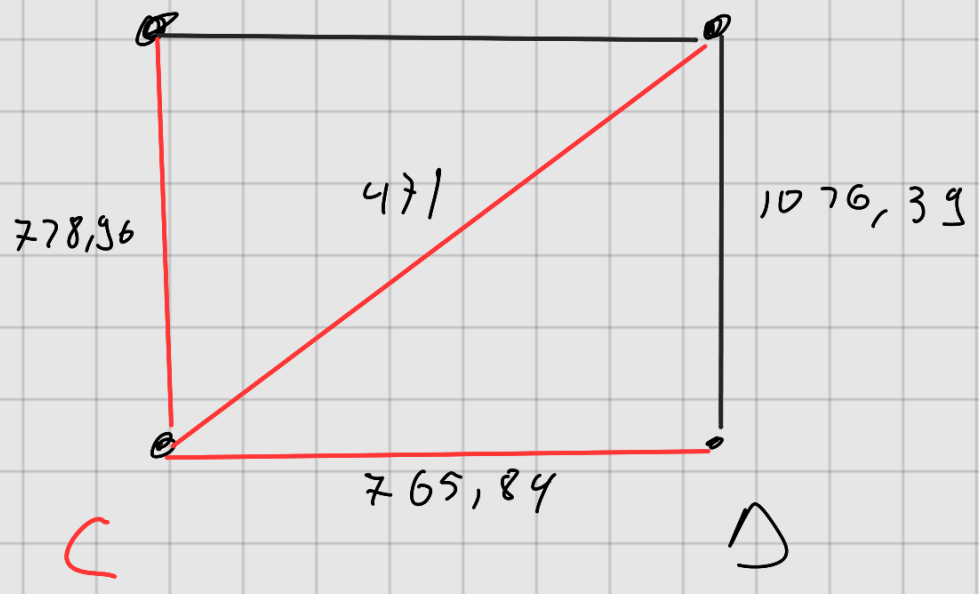
b) A - D

A = 0



Shortest path A -> D = 1375,94 (A -> B -> D)

c) A B

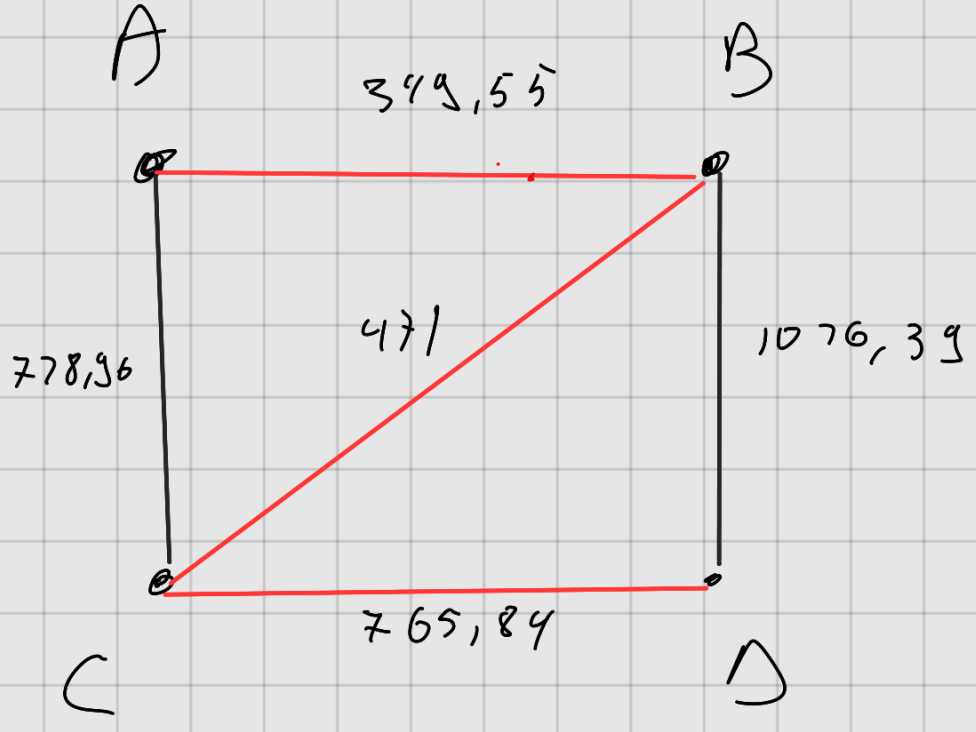


1) Random point C

2) Closest node = B (471)
3) Closest node = A (778,96)
4) Closest node = D (765,84)

Min spanning tree = 1965,8

d)



1) Smallest length = AB (349,55)

2) Add BC

3) Add CD

Min spanning tree = 1586,39