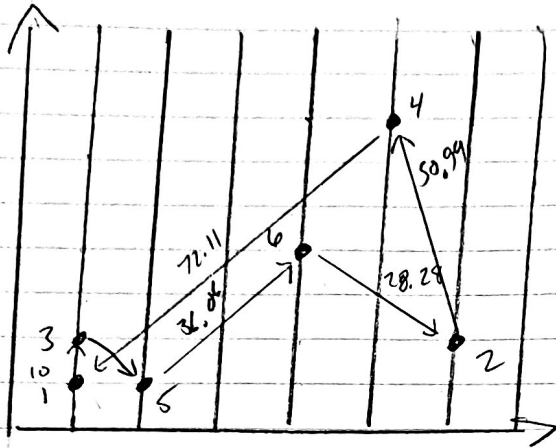


Ex 24



Route 1

1 → 3 → 5 → 6 → 2 → 4 → 1

$$10 + 14.11 + 36.06 + 28.28 + 50.99 + 72.11 = 211.55$$

Route 2

1 → 5 → 6 → 2 → 4 → 3 → 1

$$10 + 36.06 + 28.28 + 50.99 + 64.83 + 10 = 199.36$$

$n=3$ Does not work as the route is just a triangle between the points

$n=4$

Route 1.1.

1 → 3 → 5 → 6 → 1

$$10 + 14.14 + 36.06 + 42.43 = 102.63$$

Route 2

1 → 5 → 6 → 3 → 1

$$10 + 36.06 + 36.06 + 10 = 92.12$$

Therefore by counterexample the greedy approach doesn't always work