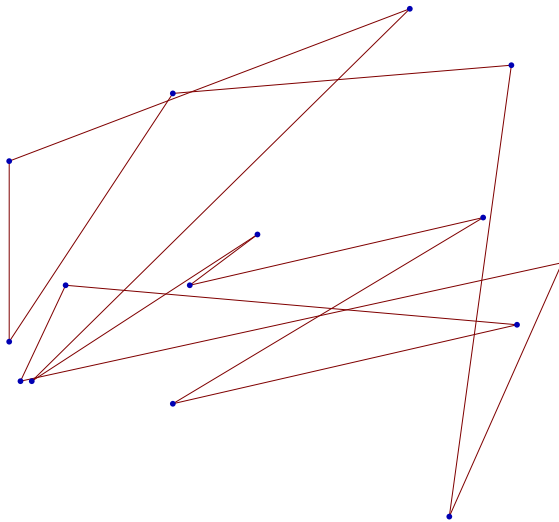


Força Bruta com 15 vértices :

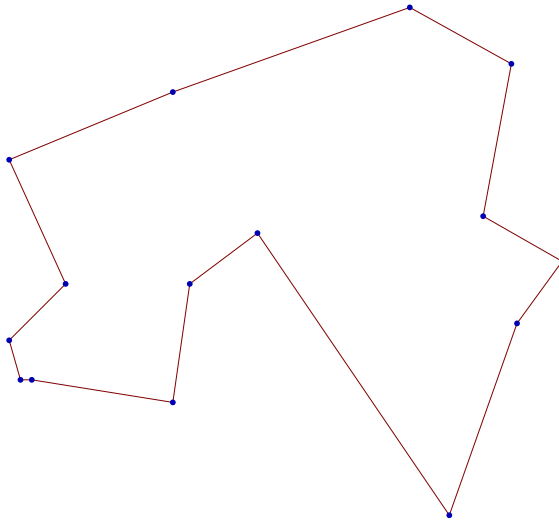
Start | 885.075 | :

```
GraphPlot[{0 -> 1, 1 -> 2, 2 -> 3, 3 -> 4, 4 -> 5, 5 -> 6, 6 -> 7, 7 -> 8, 8 -> 9,
  9 -> 10, 10 -> 11, 11 -> 12, 12 -> 13, 13 -> 14, 14 -> 0}, VertexCoordinateRules ->
  {0 -> {73, 91}, 1 -> {6, 25}, 2 -> {46, 51}, 3 -> {34, 42}, 4 -> {86, 54},
    5 -> {31, 21}, 6 -> {92, 35}, 7 -> {12, 42}, 8 -> {4, 25}, 9 -> {100, 46},
    10 -> {80, 1}, 11 -> {91, 81}, 12 -> {31, 76}, 13 -> {2, 32}, 14 -> {2, 64}}]
```



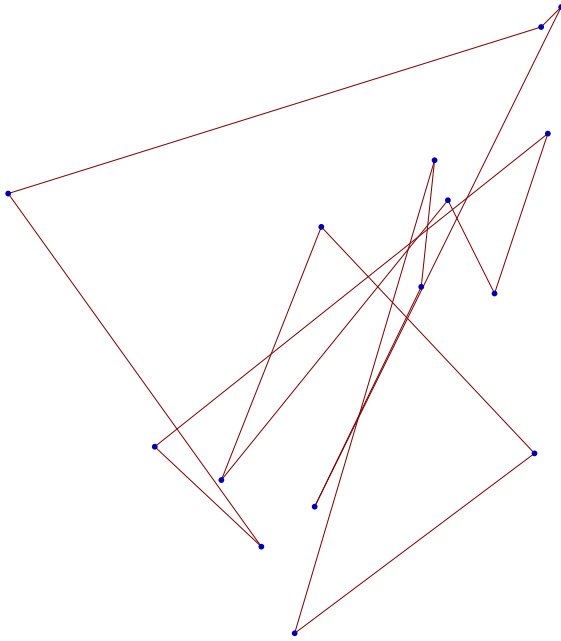
Optimal | 359.399 | :

```
GraphPlot[{0 -> 1, 1 -> 2, 2 -> 3, 3 -> 4, 4 -> 5, 5 -> 6, 6 -> 7, 7 -> 8, 8 -> 9,  
9 -> 10, 10 -> 11, 11 -> 12, 12 -> 13, 13 -> 14, 14 -> 0}, VertexCoordinateRules ->  
{0 -> {46, 51}, 1 -> {34, 42}, 2 -> {31, 21}, 3 -> {6, 25}, 4 -> {4, 25},  
5 -> {2, 32}, 6 -> {12, 42}, 7 -> {2, 64}, 8 -> {31, 76}, 9 -> {73, 91},  
10 -> {91, 81}, 11 -> {86, 54}, 12 -> {100, 46}, 13 -> {92, 35}, 14 -> {80, 1}}]
```



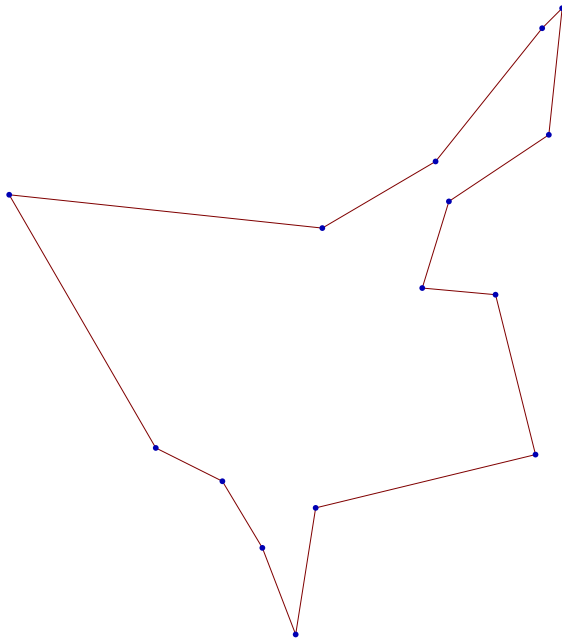
Start | 691.618 | :

```
GraphPlot[{0 -> 1, 1 -> 2, 2 -> 3, 3 -> 4, 4 -> 5, 5 -> 6, 6 -> 7, 7 -> 8, 8 -> 9,
  9 -> 10, 10 -> 11, 11 -> 12, 12 -> 13, 13 -> 14, 14 -> 0}, VertexCoordinateRules ->
  {0 -> {24, 33}, 1 -> {83, 80}, 2 -> {75, 56}, 3 -> {68, 70}, 4 -> {34, 28},
    5 -> {49, 66}, 6 -> {81, 32}, 7 -> {45, 5}, 8 -> {66, 76}, 9 -> {64, 57},
    10 -> {48, 24}, 11 -> {85, 99}, 12 -> {82, 96}, 13 -> {2, 71}, 14 -> {40, 18}}]
```



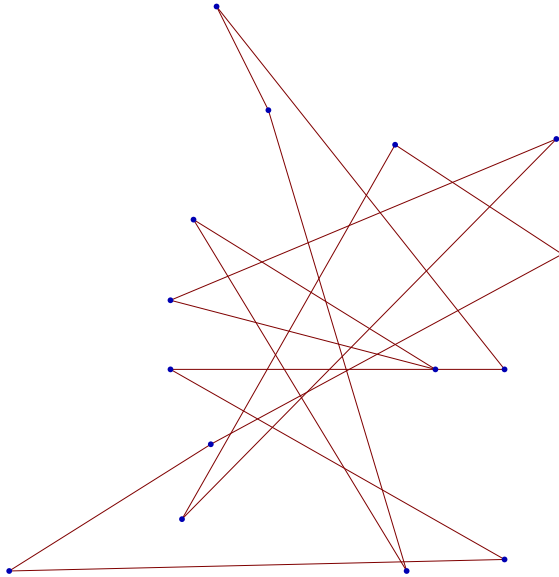
Optimal | 317.232 | :

```
GraphPlot[{0 -> 1, 1 -> 2, 2 -> 3, 3 -> 4, 4 -> 5, 5 -> 6, 6 -> 7, 7 -> 8, 8 -> 9,  
9 -> 10, 10 -> 11, 11 -> 12, 12 -> 13, 13 -> 14, 14 -> 0}, VertexCoordinateRules ->  
{0 -> {34, 28}, 1 -> {40, 18}, 2 -> {45, 5}, 3 -> {48, 24}, 4 -> {81, 32},  
5 -> {75, 56}, 6 -> {64, 57}, 7 -> {68, 70}, 8 -> {83, 80}, 9 -> {85, 99},  
10 -> {82, 96}, 11 -> {66, 76}, 12 -> {49, 66}, 13 -> {2, 71}, 14 -> {24, 33}}]
```



Start | 948.518 | :

```
GraphPlot[{0 -> 1, 1 -> 2, 2 -> 3, 3 -> 4, 4 -> 5, 5 -> 6, 6 -> 7, 7 -> 8, 8 -> 9,
  9 -> 10, 10 -> 11, 11 -> 12, 12 -> 13, 13 -> 14, 14 -> 0}, VertexCoordinateRules ->
  {0 -> {30, 49}, 1 -> {76, 37}, 2 -> {34, 63}, 3 -> {71, 2}, 4 -> {47, 82},
    5 -> {38, 100}, 6 -> {88, 37}, 7 -> {30, 37}, 8 -> {88, 4}, 9 -> {2, 2},
    10 -> {37, 24}, 11 -> {98, 57}, 12 -> {69, 76}, 13 -> {32, 11}, 14 -> {97, 77}}]
```



Optimal | 368.79 | :

```
GraphPlot[{0 -> 1, 1 -> 2, 2 -> 3, 3 -> 4, 4 -> 5, 5 -> 6, 6 -> 7, 7 -> 8, 8 -> 9,  
9 -> 10, 10 -> 11, 11 -> 12, 12 -> 13, 13 -> 14, 14 -> 0}, VertexCoordinateRules ->  
{0 -> {76, 37}, 1 -> {88, 37}, 2 -> {98, 57}, 3 -> {97, 77}, 4 -> {69, 76},  
5 -> {47, 82}, 6 -> {38, 100}, 7 -> {34, 63}, 8 -> {30, 49}, 9 -> {30, 37},  
10 -> {37, 24}, 11 -> {2, 2}, 12 -> {32, 11}, 13 -> {71, 2}, 14 -> {88, 4}}]
```

