

```

c = Sqrt[2] / 2
G = {{-c, -1}, {-c, 0}}
F = {0, 10}
iG = Inverse[G]

1
-----
sqrt(2)

{{{-1/sqrt(2), -1}, {-1/sqrt(2), 0}}}
{0, 10}

{{0, -sqrt(2)}, {-1, 1}}
s = -iG.F
{10 sqrt(2), -10}
s[[1]]
10 sqrt(2)
A1h = s[[1]] / 24 // N
A2h = Sqrt[Abs[s[[2]]] 4 x 100^2 / 21 000 / Pi] // N
0.589256
2.46233
NMinimize[{A1 Sqrt[2] + A2, {A1 >= A1h, A2 >= A2h}}, {A1, A2}]
{3.29566, {A1 -> 0.589256, A2 -> 2.46233}}

p1 = ContourPlot[A1 Sqrt[2] + A2, {A1, 0, 5}, {A2, 0, 5},
  ContourShading -> None, FrameLabel -> Automatic, ContourLabels -> True];
p2 = ContourPlot[A1 Sqrt[2] + A2 == 3.2956585456316243,
  {A1, 0, 5}, {A2, 0, 5}, ContourStyle -> {Green, Thick}];
p3 = ContourPlot[{A1 == A1h, A2 == A2h}, {A1, 0, 5}, {A2, 0, 5}, ContourStyle -> Red];
Show[p1, p2, p3]

```

