```
c = Sqrt[2] / 2
G = {{-c, -1}, {-c, 0}}
F = {0, 300}
iG = Inverse[G]
```

$$\frac{1}{\sqrt{2}}$$

$$\left\{\left\{-\frac{1}{\sqrt{2}}, -1\right\}, \left\{-\frac{1}{\sqrt{2}}, 0\right\}\right\}$$

```
{0, 300}
```

$$\left\{\left\{0, -\sqrt{2}\right\}, \{-1, 1\}\right\}$$

```
s = -iG.F // N
```

```
{424.264, -300.}
```

```
A1h = s[[1]] / 24 // N
A2h = Abs[s[[2]]] / 24 // N
A2Eh = Sqrt[Abs[s[[2]]] 4 × 100^2 / 21000 / Pi] // N
```

```
17.6777
```

```
12.5
```

```
13.4867
```

```
NMinimize[{A1 Sqrt[2] + A2, {A1 ≥ A1h, A2 ≥ A2h, A2 ≥ A2Eh}}, {A1, A2}]
```

```
{38.4867, {A1 → 17.6777, A2 → 13.4867}}
```

```
p1 = ContourPlot[A1 Sqrt[2] + A2, {A1, 0, 20}, {A2, 0, 20},
   ContourShading → None, FrameLabel → Automatic, ContourLabels → True];
p2 = ContourPlot[A1 Sqrt[2] + A2 == 38.486710626894705,
   {A1, 0, 20}, {A2, 0, 20}, ContourStyle → {Green, Thick}];
p3 = ContourPlot[{A1 == A1h, A2 == A2h, A2 == A2Eh},
   {A1, 0, 20}, {A2, 0, 20}, ContourStyle → Red];
p4 = ContourPlot[{A1 == 17.677669529663685, A2 == 13.486710626894709},
   {A1, 0, 20}, {A2, 0, 20}, ContourStyle → Blue ];
```

```
Show[p1, p2, p3, p4]
```