

```
In[*]:= g0 = 4 π 3/2 Sin[ArcTan[1/√2]]

In[*]:= g1 = 4 π Sin[π/8]

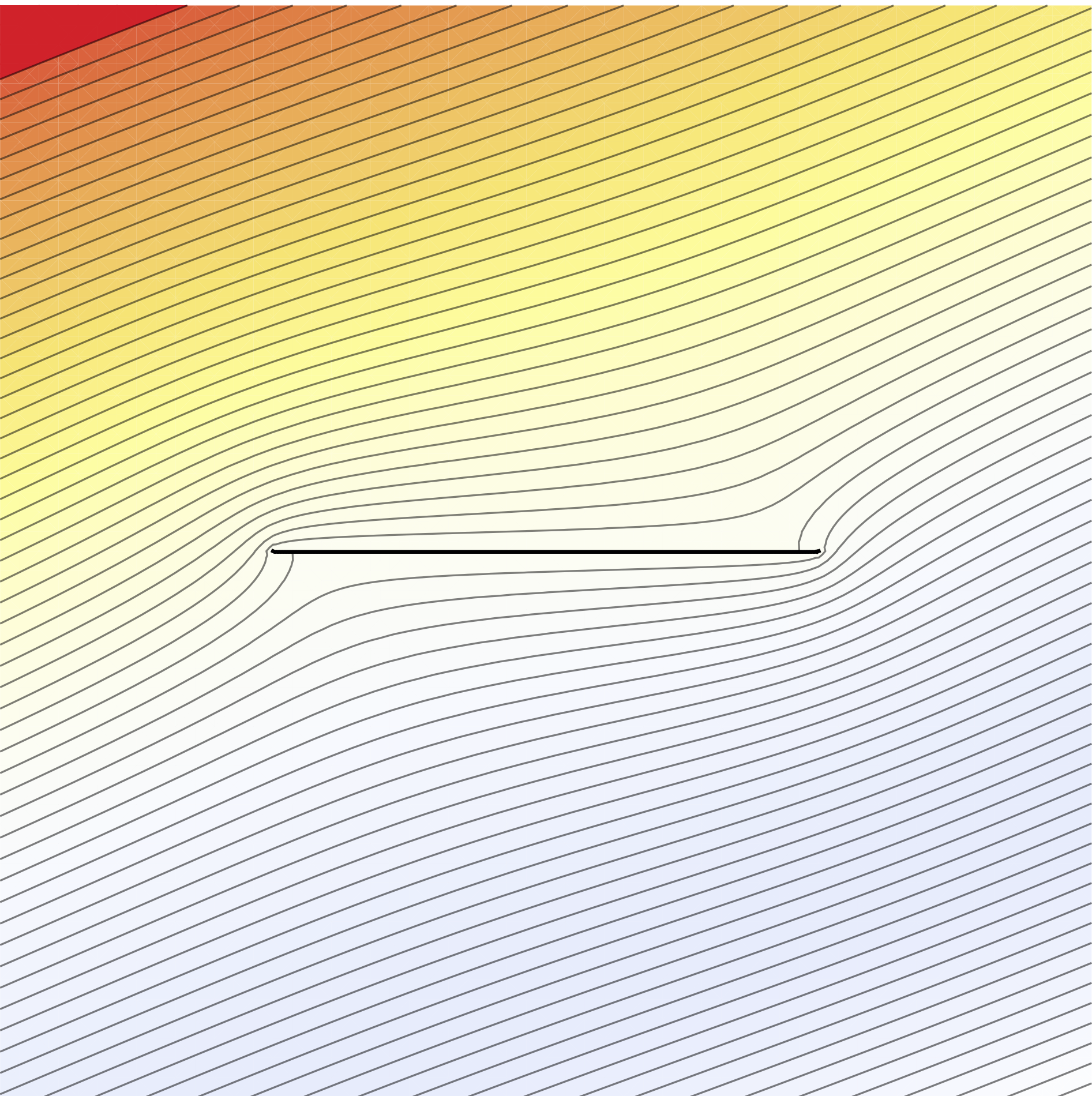
In[*]:= Z = z + z √(1 - z-2)

In[*]:= W = T Exp[-i π/8] + 1/T Exp[i π/8] - g1/2 i π Log[T]

In[*]:= W0 = T + 3/2/T - g0/2 i π Log[T/√(3/2)]

In[*]:= ContourPlot[Im[Z /. z → x + i y] == 0, {x, -1, 1}, {y, -1, 1}, Frame → None, AspectRatio → 1,
  ContourStyle → {Black, Thick}, PlotPoints → 50]

In[*]:= ContourPlot[Im[Evaluate[W1 /. T → Z]] /. z → x + i y, {x, -2, 2}, {y, -2, 2}, Frame → None,
  ColorFunction → ({Opacity[#], ColorData["TemperatureMap"][#]} &), AspectRatio → 1,
  Contours → 70, Mesh → None, WorkingPrecision -> 100]
```



```
In[*]:= ContourPlot[Im[Evaluate[W /. T → Z]] /. z → x + i y, {x, -2, 2}, {y, -2, 2}, Frame → None,
  ColorFunction → ({Opacity[#], ColorData["TemperatureMap"][#]} &), AspectRatio → 1,
  Contours → 70, Mesh → None, WorkingPrecision -> 100]
```

