- f = h + x (r - x) -> x* = 1/2(r + Sqrt[4h + r^2])

```
ParametricPlot3D[{{r, h, 1 / 2 (r + Sqrt[4 h + r^2])}, {r, h, 1 / 2 (r - Sqrt[4 h + r^2])}},
 {r, -3, 3}, {h, -3, 3},
 PlotLegends → {"Positive roots", "Negative roots"}, {AxesLabel → {r, h}}]
```

Out[ ]=