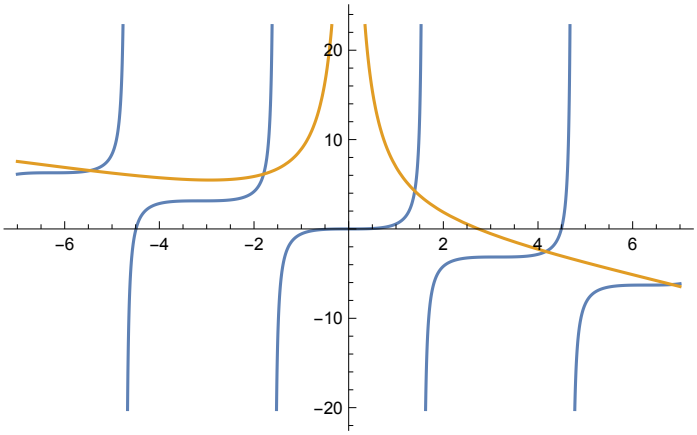
In[1]:=
```
Plot[{{Tan[z] - z}, {Sqrt[(8 / z)^2 - 1] - z}}, {z, -7, 7}]
```

Out[1]=



- We can use Desmos to find the intersections. The intersections correspond to a z-value, which corresponds to an energy eigenvalue. Since there are 5 intersections we know there will be 5 even eigenfunctions (we know they are even since we found them with the condition A=0).

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