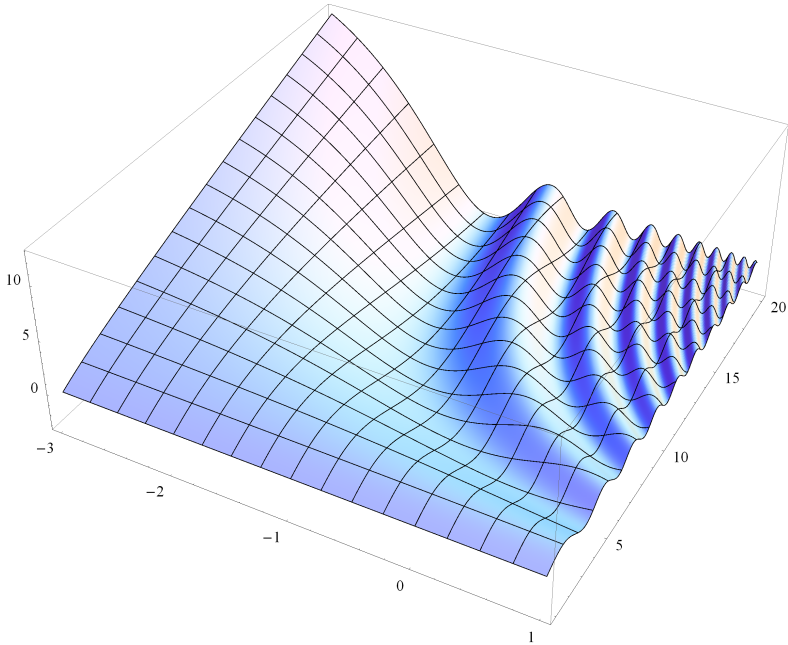


Pensieve header: Little on the equation $y'' + x^\alpha y = 0$.

```
Rasterize[ListPlot3D[Table[
  Yα = First[y[x] /.
    NDSolve[y''[x] + x^α y[x] == 0 && y[1] == 0 && y'[1] == 1, y[x], {x, 1, 20}]];
  Table[Re[Yα], {x, 1., 20, 19/300}],
  {α, -3., 1, 4/300}
] // Transpose, DataRange → {{-3, 1}, {1, 20}}, ImageSize → 500]
```



```
Plot[Evaluate[Table[
  y[x] /. DSolve[y''[x] + x^α y[x] == 0 && y[1] == 0 && y'[1] == 1, y[x], x],
  {α, -3, 1, 0.25}]], {x, 1, 26}]
```

