Problem 16) The was a plot is only relevant between we . 01 & w = ,33

because below . It the solutions for x move out of blesame range of known inaccount.

Beyond . 33 solutions become so lorge they appear infinite.

There seems to be a basin of sorts limited by we makine I minima.

Over the course of the w rang, the plot of iterations almost form stratis in downward lirection. You can see the it you change the x range to ,0001 and photout the pixels. I shis result expected? Yes! Although, the downward strate I did not great and I still don't know Why that is. We expect the basin shape though expect and I still don't know Why that is. We expect the basin shape though

Pabler 2

0) (206) = (-477 sin(>)

because the less the rebushing the more the rescalt is undestall and the larger it takes. The how larger it is, the more it is overshot and the larger it takes.

$$\frac{1}{h^{2}} \begin{bmatrix} -2 & 1 & 0 & ... & 0 & 1 \\ 1 & -2 & 1 & 0 & ... & 0 & 1 \\ 0 & 1 & -2 & 1 & ... & 0 \\ 0 & 1 & -2 & 1 & ... & 0 \\ 0 & 1 & -2 & 1 & ... & 0 \\ 0 & 1 & -2 & 1 & ... & 0 \\ 0 & 1 & -2 & 1 & ... & 0 \\ 0 & 1 & 0 & 1 & -2 & ... & 0 \\ 0 & 1 & 0 & ... & 0 & ... & 0 \\ 0 & 1 & 0 & 1 & -2 & ... & 0 \\ 0 & 1 &$$

The temperatures do not make sense became the boundaries are of 0°, 0°, 10°, and 200° and my resultant vector corbins regard temperatures. The withfirst of property in part 6 was to multiply the be weeker the withfirst of property are did of the governing equation by -1 such that the distriction are did of the governing equation (which we must temperatures to the right hard site) is correctly reperturbed.