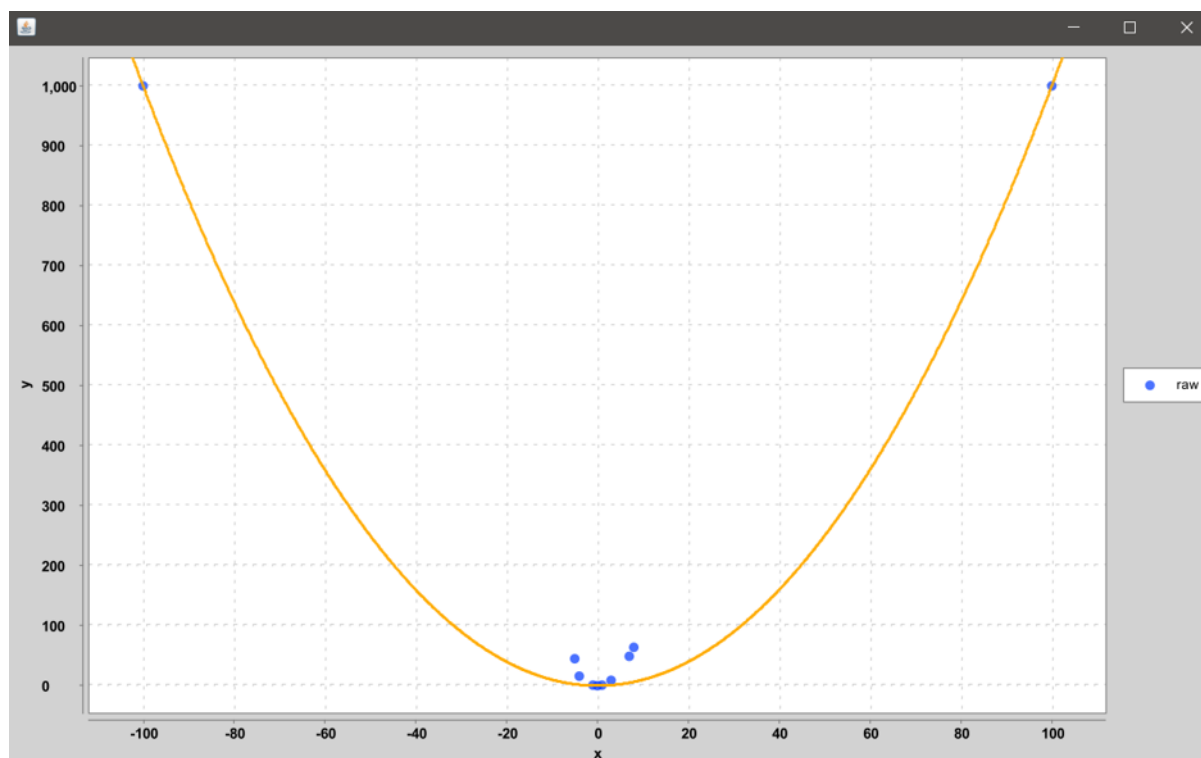# Question One:

Univariate non-linear regression in Java with inital values of w_0, w_1 and w_2 set to 0 and α set to 0.00000001 over 100 epochs. My code[1] yields the following output:

```
h(x) = (0.10000515906009057 * x^2) + (-5.183013415310536E-4 * x) + 1.7778308805231613E-4
```

After plotting this function (using xchart) we can see parameterized hypothesis function fits the training data relatively well.

lol

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[1]solution1.java