

Mathematica's "Fit" function

`Fit` takes the list of functions you give, and finds the best fit to your data, according to the least-squares criterion, using these functions. (The *Mathematica* book)

`Fit` always finds the linear combination of the functions in the list *forms* that minimizes the sum of the squares of deviations from the values f_i . (*Mathematica* on-line Help)

The Number of the Beast

```
In[1] := f[x_] = x - 6660000;
```

```
In[2] := Table[{x, f[x]}, {x, 6659999, 6660001}]
```

```
Out[2] = {{6659999, -1}, {6660000, 0},  
          {6660001, 1}}
```

```
In[3] := Fit[%, {1, x}, x]
```

```
Out[6] = 2.25676 10-21 + 1.503 10-14 x
```