

# An Example

**Ex:** What line best fits the data  $(-1, .5)$ ,  $(0, 1)$ ,  $(1, 1.5)$ ,  $(2, 3.5)$ ,  $(3, 3.5)$ ,  $(4, 5.5)$ ,  $(5, 5.5)$ ?

We need to compute various sums. A table is a convenient way to do this:

$x$	$y$	$x^2$	$xy$	
-1	.5	1	-0.5	
0	1	0	0	
1	1.5	1	1.5	
2	3.5	4	7	
3	3.5	9	10.5	
4	5.5	16	22	
5	5.5	25	27.5	
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Totals:	14	21	56	68