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3. The cost C of mailing a first-class letter depends on the weight w of the letter. Although there is no simple formula connecting w and C , the post office has a rule for determining C when w is known.

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The set in which the values of the **independent variable** x lie is called the **domain** of f and the set of values y of the **dependent** variable is called the **range**. We will write $f(x)$ for the value of y associated with x , and will often write $y = f(x)$.

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One important application of Calculus will be the development of techniques for sketching graphs of functions.

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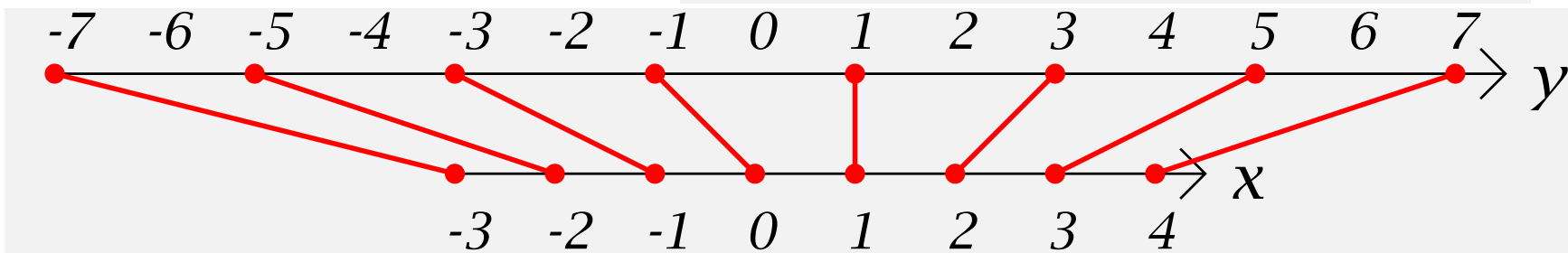
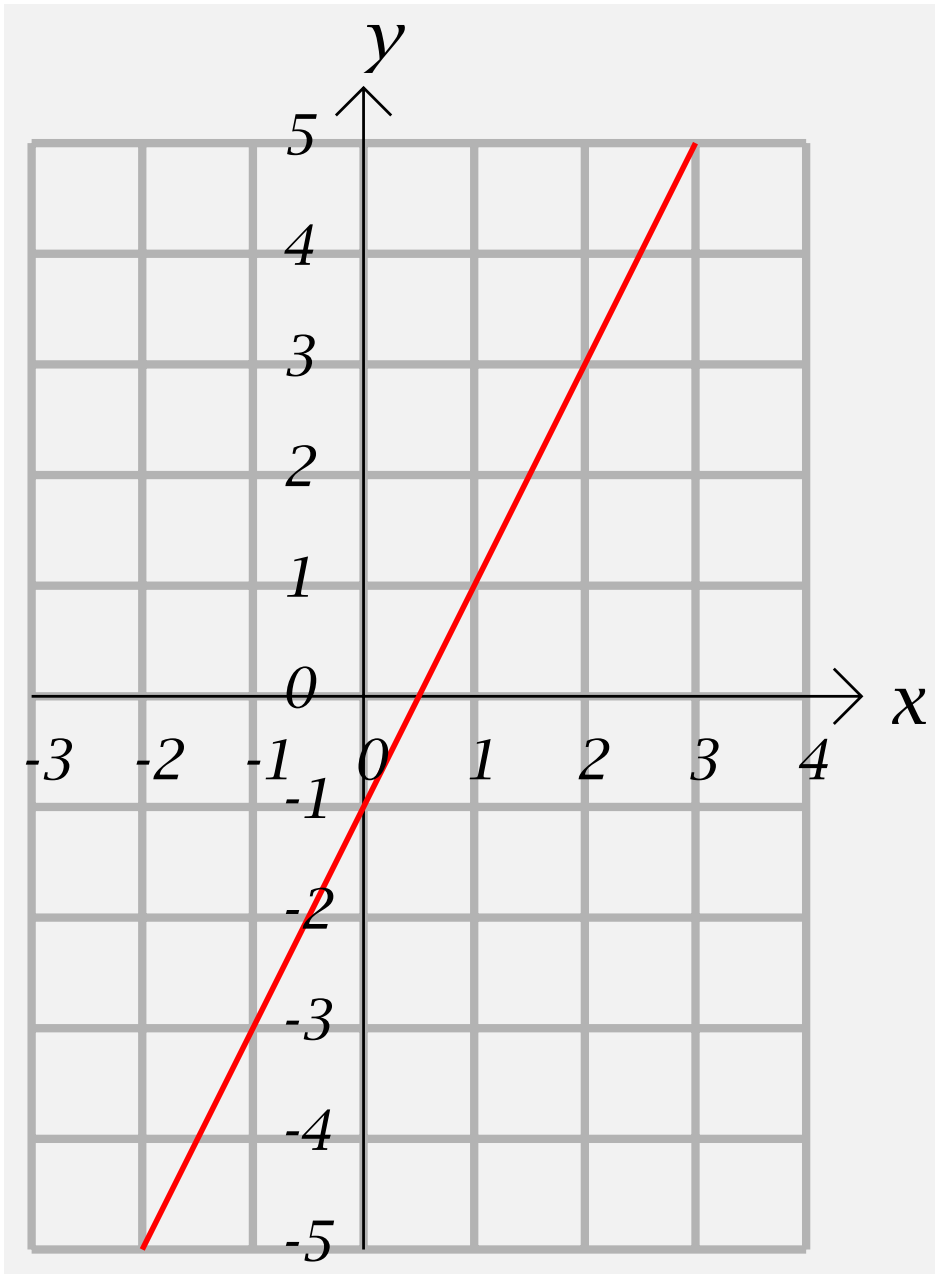
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and subtract one.”

x	-3	-2	-1	0	1	2	3	4
$f(x)$	-7	-5	-3	-1	1	3	5	7

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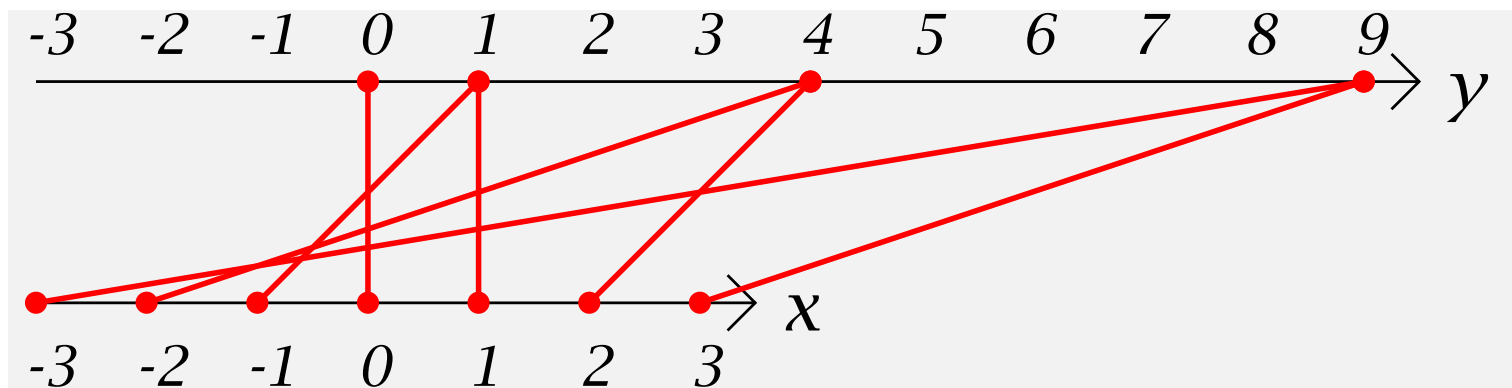
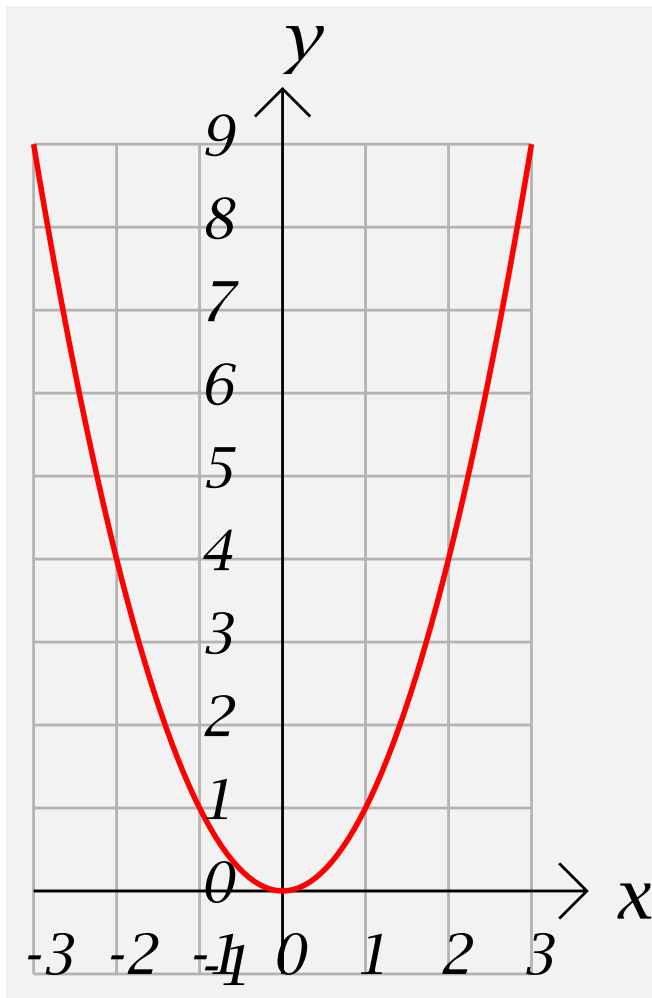
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