



Math for the people, by the people.

example of arithmetic derivative

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Consider the natural number 6. Using the rules of the arithmetic derivative we get:

$$6' = (2 \cdot 3)' = 2' \cdot 3 + 2 \cdot 3' = 1 \cdot 3 + 2 \cdot 1 = 5$$

Below is a list of the 10 first natural numbers and their first and second arithmetic derivatives:

n	1	2	3	4	5	6	7	8	9	10
n'	0	1	1	4	1	5	1	12	6	7
n''	0	0	0	4	0	1	0	16	5	1