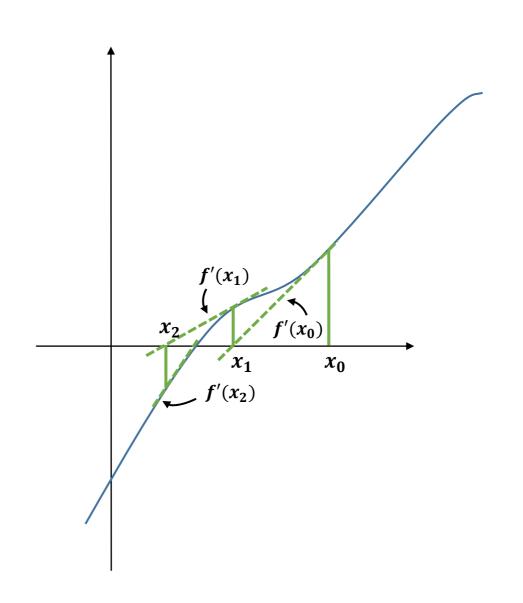
Programmieren in C | Grundlagen

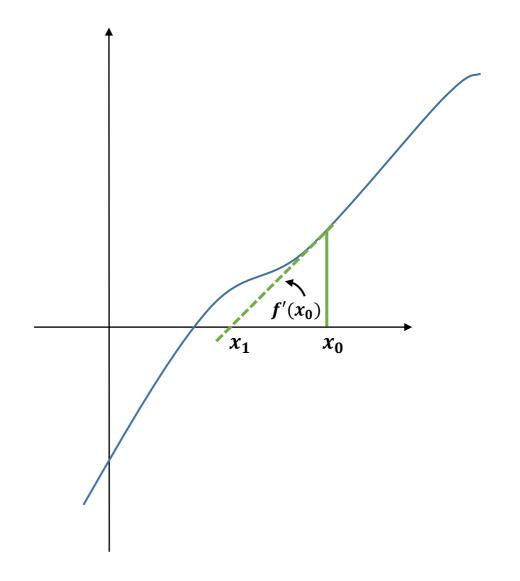
$$f'(x_n) \cdot (x_n - x_{n+1}) = f(x_n) - 0$$

$$(x_n - x_{n+1}) = \frac{f(x_n)}{f'(x_n)}$$

$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

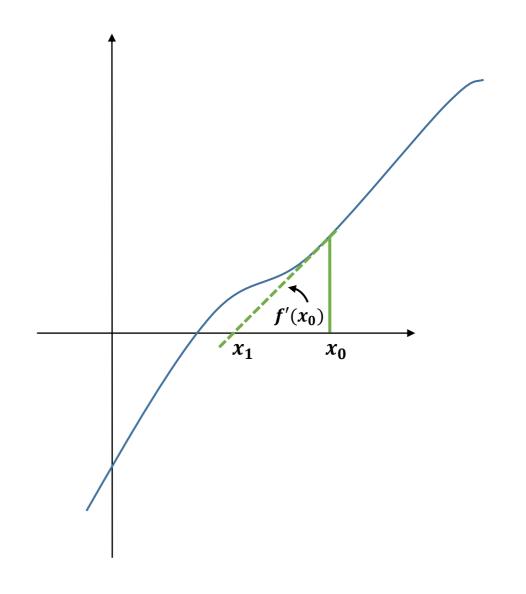


$$f'(x_n) \cdot (x_n - x_{n+1}) = f(x_n) - 0$$



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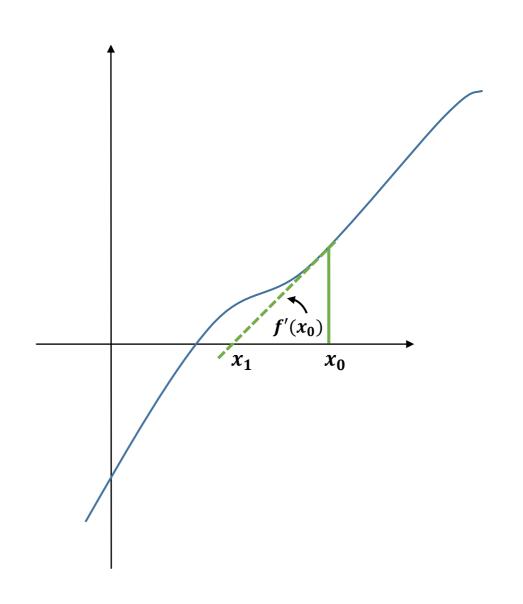
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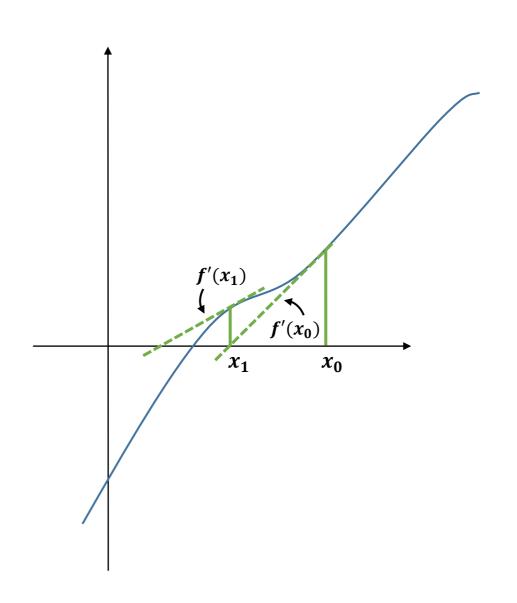
$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$



$$f'(x_n) \cdot (x_n - x_{n+1}) = f(x_n) - 0$$

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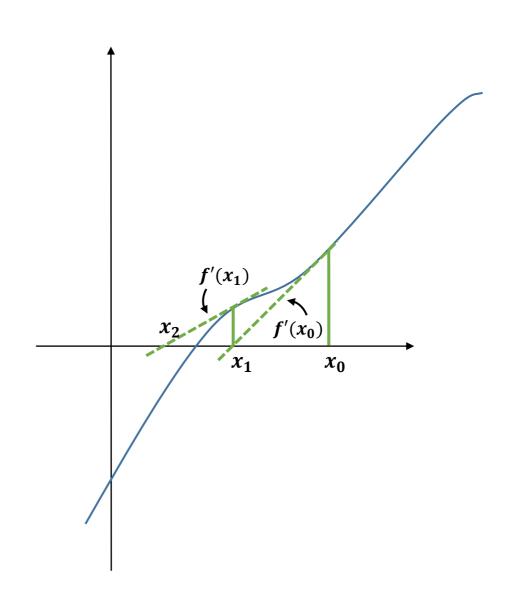
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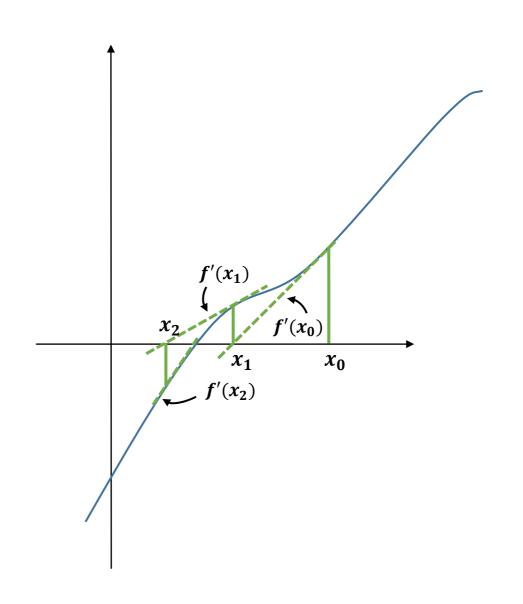
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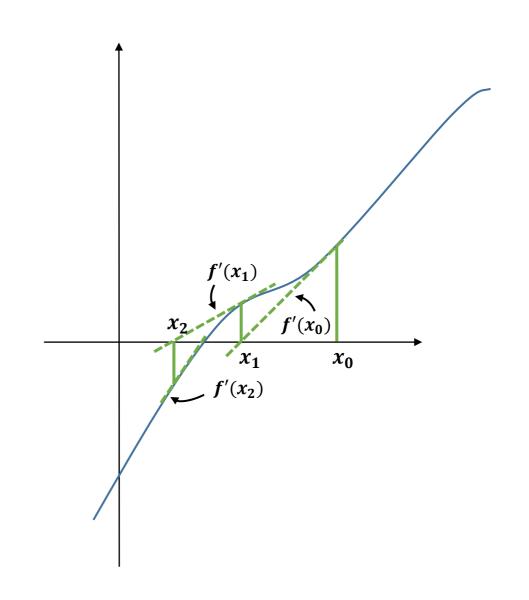
$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$



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$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

$$f(x) = (x-3)^2$$
 $f'(x) = 2(x-3)$

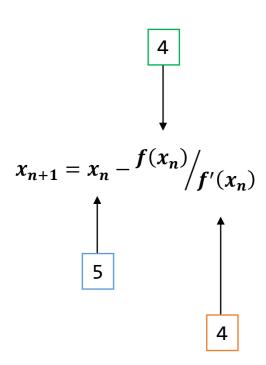
$$f'(x) = 2(x-3)$$

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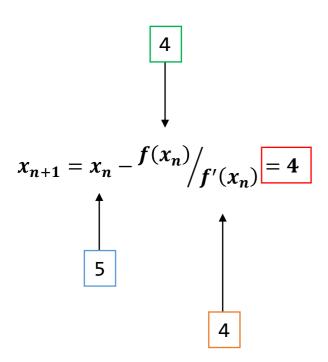
$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

$$f(x) = (x-3)^2$$
 $f'(x) = 2(x-3)$ x

$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

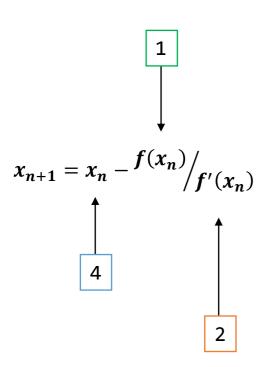


$$f(x) = (x-3)^2$$
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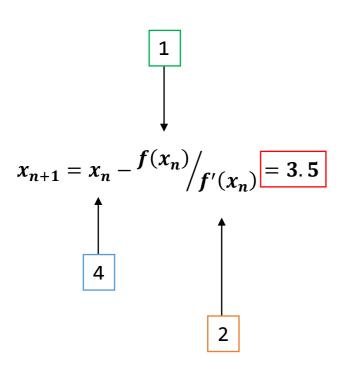
$$f'(x) = 2(x-3)$$



$$f(x) = (x-3)^2$$
 $f'(x) = 2(x-3)$ x

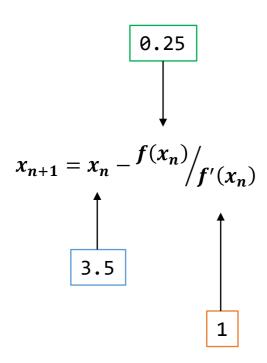
4 4 5

1 2



$$f(x) = (x-3)^2$$
 $f'(x) = 2(x-3)$ x

4 4 5
2 4
3.5

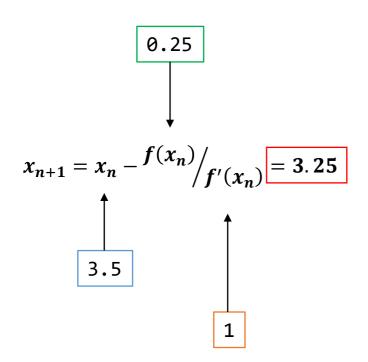


$$f(x) = (x-3)^2$$
 $f'(x) = 2(x-3)$ x

4 4 5

1 2 4

0.25 1 3.5



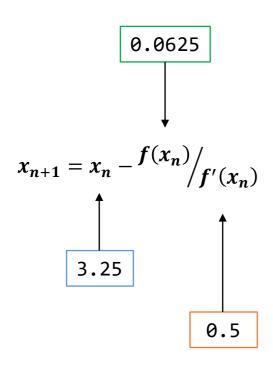
$$f(x) = (x - 3)^2$$
 $f'(x) = 2(x - 3)$ x

4 4 5

1 2 4

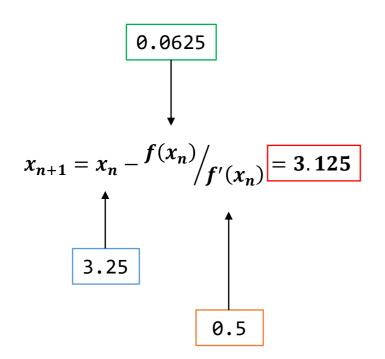
0.25

1 3.5



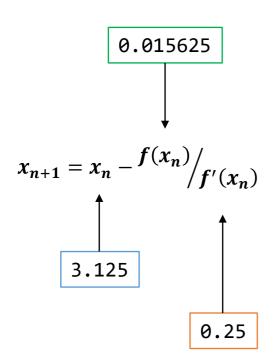
$$f(x) = (x-3)^2$$
 $f'(x) = 2(x-3)$ x

4 4 5
1 2 4
0.25 1 3.5
0.0625 0.5



$$f(x) = (x - 3)^2$$
 $f'(x) = 2(x - 3)$ x

4 4 5
1 2 4
0.25 1 3.5
0.0625 0.5 3.125



$$f(x) = (x - 3)^2$$
 $f'(x) = 2(x - 3)$

4 4

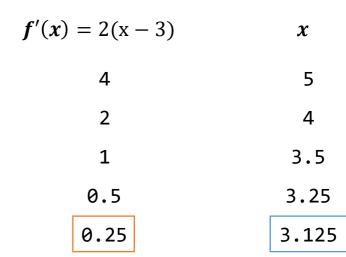
1 2

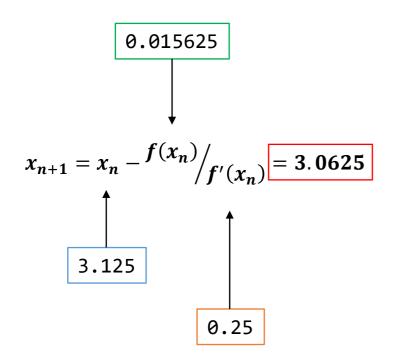
0.25

0.0625

0.015625

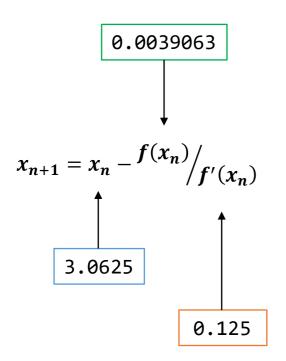
0.25



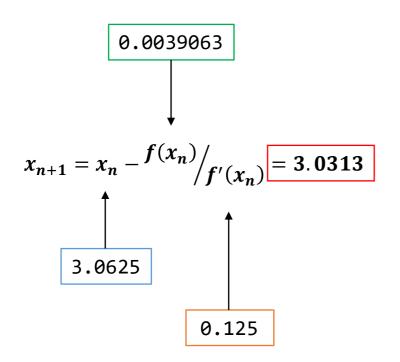


$f(x) = (x-3)^2$	f'(x) = 2(x-3)	x
4	4	5
1	2	4
0.25	1	3.5
0.0625	0.5	3.25
0.015625	0.25	3.125
		I

3.0625

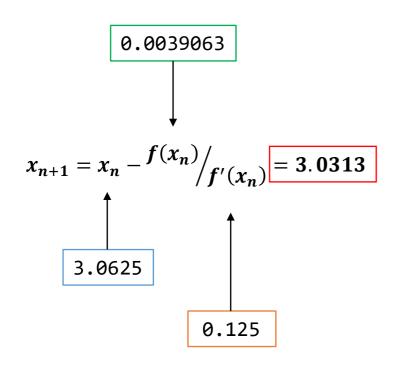


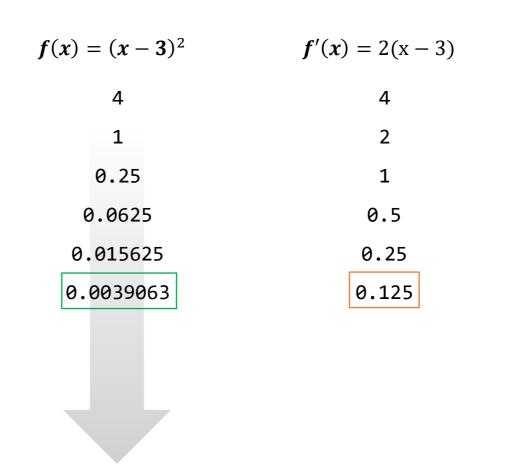
$$f(x) = (x - 3)^2$$
 $f'(x) = 2(x - 3)$ 44120.2510.06250.50.0156250.250.00390630.125



$$f(x) = (x - 3)^2$$
 $f'(x) = 2(x - 3)$ 44120.2510.06250.50.0156250.250.00390630.125

0.0





3.0

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3.5

3.25

3.125

3.0625

3.0313