Newton's Method	
Consider x2-1=0	(Algorithm Fails)
* * Theration 1 * *	
O Pick value starting at xo=0	
3 Ge++(x)	
F((x) = <u>d</u> (x ² -1)]	
-A-Cx23 - A-C13	
f'(x)=2 x	
(x) = 2x)	
$3 \text{ Get slope or longent at } \times = 0$ $4'(0) = 2(0)$	
] f'(0) = 0	
9) Set equation of tangent line $y=mx+b$ $f'(0)=0$, $m=0$	
y = 0x+b	
Daet Domain and Range For y=	0x+b is (-00, 00)
6 Get y value and y-intercept	Use (0, -D)
$f(x) = x^2 - 1$ $f(0) = (0)^2 - 1$	y = 0 x + b
	-1 = 0.49 -1 = 0.(0) + 9

Ø	Summarize Equation Equation of tangent line to the cure y=r(x) at x = 0 is																											
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