kalkulus1 Cheat Sheet

by unu via cheatography.com/169384/cs/35459/

turunan

- f(x) = k → f'(x) = 0 *(k = konstanta)*
- f(x) = x → f'(x) = 1
- f(x) = kx → f'(x) = k
- $f(x) = x^n \rightarrow f'(x) = n.x^{n-1}$
- $f(x) = kx^n \rightarrow f'(x) = k.n.x^{n-1}$
- f(x) = U + V → f'(x) = U' + V'
- f(x) = U - V → f'(x) = U' - V'
- f(x) = U × V → U'.V + V'.U
- $f(x) = U/V \rightarrow (U'.V - V'.U)/V^2$
- $f(x) = U^n \rightarrow n.U^{n-1} . U'$

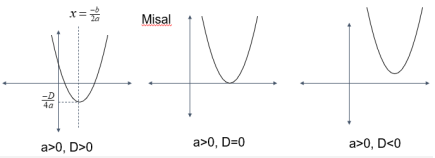
- f(x) = sin x → f'(x) = co
- f(x) = cos x → f'(x) = -
- f(x) = tan x → f'(x) = se
- f(x) = cot x → f'(x) = - (
- f(x) = sec x → f'(x) = s
- f(x) = csc x → f'(x) = -
- f(x) = sin kx → f'(x) = k
- f(x) = cos kx → f'(x) = -
- $f(x) = \sin^n x \rightarrow f'(x) = n$
- $f(x) = \cos^n x \rightarrow f'(x) =$
- f(x) = sin U → f'(x) = U
- f(x) = cos U → f'(x) = -

fungsi kuadrat

b. Fungsi Kuadrat

$f(x) = ax^2 + bx + c$

Grafik berupa parabola. $D = b^2 - 4ac$



a>0, D>0 | a>0, D=0 | a>0, D<0

pertidaksamaan mutlak

Sifat-sifat nilai mutlak:

1. $|x| = \sqrt{x^2}$
2. $|x| \le a, a \ge 0 \quad \leftrightarrow \quad -a \le x \le a$
3. $|x| \ge a, a \ge 0 \quad \leftrightarrow \quad x \ge a$ atau $x \le -a$
4. $|x| \le |y| \quad \leftrightarrow \quad x^2 \le y^2$
5. $\left|\frac{x}{y}\right| = \frac{|x|}{|y|}$
6. Ketaksamaan segitiga

$|x+y| \le |x| + |y| \qquad |x-y| \ge ||x| - |y||$

komposisi

$fog = (Rg \cap Df) \neq 0$
$Dfog = g^{-1}(Rg \cap Df)$
$Rfog = f(Rg \cap Df)$

ft

1. $\lim_{x \to 0} \frac{\sin x}{x} = 1$
2. $\lim_{x \to 0} \cos x = 1$
3. $\lim_{x \to 0} \frac{\tan x}{x} = 1$

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