



and Doa D01 Doo ara 611 α,, 0,0 00 B as Dag Dao and boilt and int and bai pão + a. aoobo+ ao, b,0 a, bota, b, o + a, a b 20 a 20 boota, b, o + a 22 b 20

$$C_{ij} = \sum_{k=0}^{n-1} a_{ik} b_{kj}$$

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∠W,V>= |*|+ |* ○= | <9, w> = -1 49,27

optimication
$$(x-3)(x-3)$$
 $f(x) = (x-3)^2 + 1$
 $x^2 - 3x - 3x + 9 + 1$
 $x^2 - 6x + 9 + 1$
 $f(x) = 2x - 6$

$$f(x) = f(a) + f'(a)(x-a) + \frac{f''(a)}{a!}(x-a)^{2} + \frac{f''(a)(x-a)^{2}}{a!}$$

$$f(x) - f(a) \approx f'(a)(x-a)$$

$$\frac{f(x+h)-f(x)}{h} \approx f'(x)$$

marginal probability: joint prob: $p(A \cap B)$ $p(A \cap B)$ red n joint $a/5a \rightarrow b/a6$ red n joint $p(A \cap B) = \frac{p(A \cap B)}{p(B)}$ conditional prob: $p(A \mid B) = \frac{p(A \cap B)}{p(B)}$

prob + if actually uses =
$$99\%$$

prob nes if actually not uses = 98%

prob uses: 0.1%

prob (uses | +) = $p(+|uses)$ p(uses)

prob (uses | +) = $p(+|uses)$ p(uses)

p(+) = $p(+|use)$ p(use (.94) (.001) + (.00) (.999) = .047

+ $p(+|dentus)$ p(dentus)