

6.1 : Functions of Several Variables

$P(x,y) = 4x+6y$: Find $P(25,10)$ Substitute 25 for x and 10 for y .

$C1/C2=Old/New$ Cost $V1/V2=Old/New$ Cap. $C2 = (V2/V1)^{0.6} \cdot C1$

Finding the number of phone calls between 2 cities. $N(d,P1,P2) = (2.8 \cdot P1 \cdot P2) / d^{2.4}$

6.2 : Partial Derivatives

Q.)When does the sub-variable cancel out of the partial derivative? A.)When you partially derive and treat the sub-variable as a constant.

Q.)When does the sub-variable stay in the partial derivative, and stay untouched? A.)When you partially derive with respect to the sub-variable.

What does the partial derivative give? P.D. of f w/respect to x gives the slope of the tangent line in the $+x$ direction.

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