

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

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

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

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

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