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.	$C2 = (V2/V1)^{0.6} * C1$
Finding the number of phone calls between 2 cities.	$N(d,P1,P2) = (2.8*P1*P2)/d^{2.4}$

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.