Some Rules of Differentiation for a Function of One Variable

Power Function Rule:



1. y=x2
2. y=x1/2
3. y=1/x
4. y=x-3/4
5. y=x3

Sum Difference Rule:



1. y=250x-.25x2
2. C=Q3-4Q2+10Q+75

Product Rule:



1. y=(2x+3)(3x2)
2. y=(3x+11)(6x2-5x)

Quotient Rule:



1. 
2. 

Partial Derivatives for a Function of More Than One Variable

1. $y=f\left(x\_{1},x\_{2}\right)=3x\_{1}^{2}+ x\_{1}x\_{2}-4x\_{2}^{3}$
2. 
3. 