

Part Ia Vector Calculus

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i; which is the chain rule for partial derivatives. Example. Take $f(x;y;z) = x + e^{\sin z}$. Then $r_f = \frac{\partial f}{\partial x}; \frac{\partial f}{\partial y}; \frac{\partial f}{\partial z} = (1 + ye^{\sin z}; xe^{\sin z}; e^{\cos z})$ At $(x;y;z) = (0;1;0)$, $r_f = (1;0;1)$. So f increases/decreases most rapidly for $n = p1\ 2$. $(1;0;1)$ with a rate of change of $p\ 2$.

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6 Div, Grad, Curl and r IA Vector Calculus (Theorems with proof) 6 Div, Grad, Curl and r 6.1 Div, Grad, Curl and r Proposition. Let $f;g$ be scalar functions, $F;G$ be vector functions, and α be constants. Then $r(f + g) = r_f + r_g$ $r(F + G) = r_F + r_G$ $r(F \cdot G) = r_F \cdot G + F \cdot r_G$ Proposition. We have the following Leibnitz properties: $r(fg) = (r_f)g + f(r_g)$

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