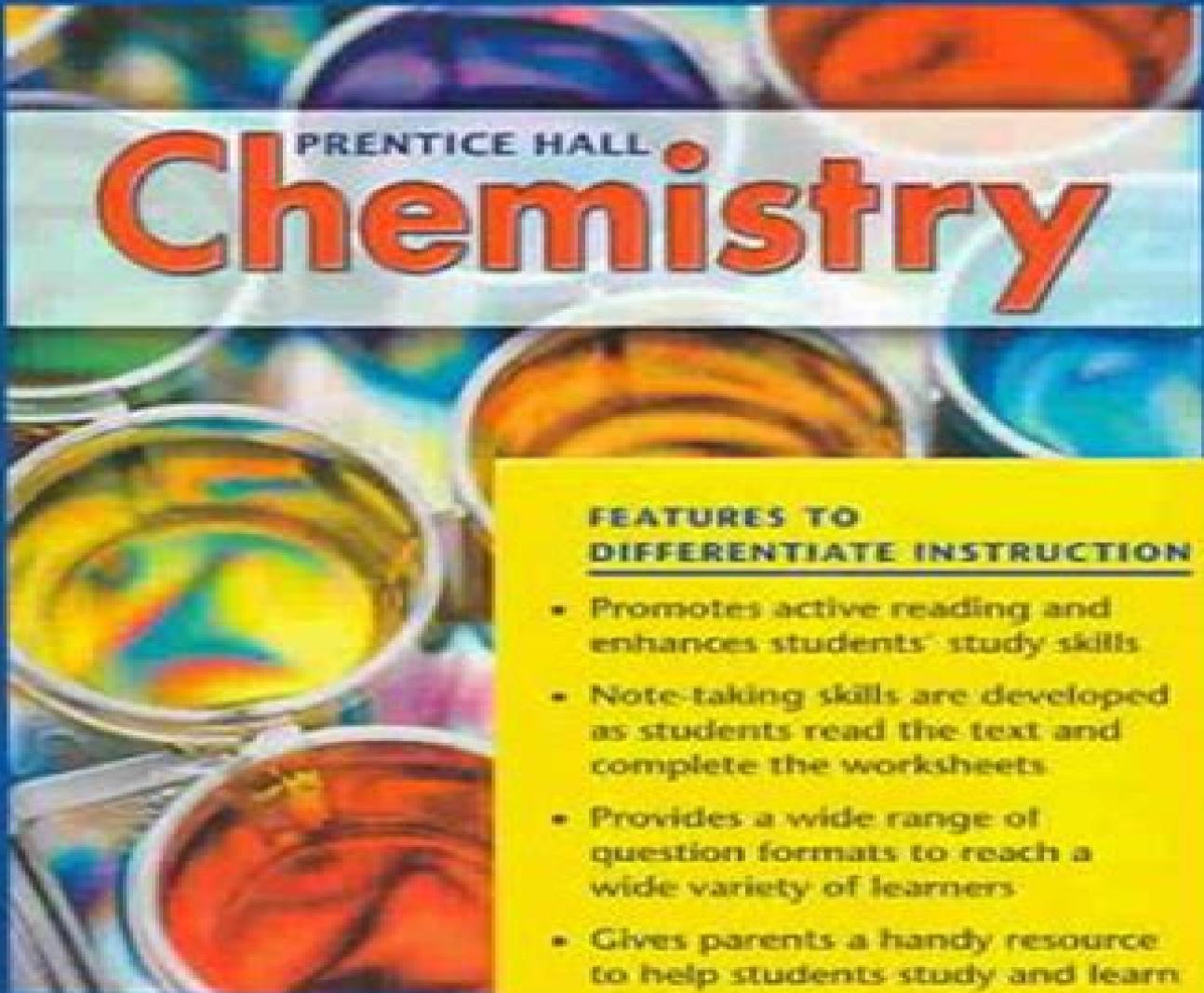


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1 by definition we know the following $f_x(x,y) = \lim_{\Delta x \rightarrow 0} \frac{f(x+\Delta x,y)-f(x,y)}{\Delta x}$

$\delta f(x,y) \approx f_x(x,y)\delta x + f_y(x,y)\delta y$

$\delta^2 f(x,y) \approx \delta x \delta y f_{xy}(x,y)$

$\delta^2 f(x,y) \approx \frac{1}{2}(\delta x)^2 f_{xx}(x,y) + (\delta x)(\delta y)f_{xy}(x,y) + \frac{1}{2}(\delta y)^2 f_{yy}(x,y)$

$\delta^3 f(x,y) \approx \frac{1}{6}\delta x^3 f_{xxx}(x,y) + \frac{1}{2}\delta x^2 \delta y f_{x^2y}(x,y) + \frac{1}{2}\delta x \delta y^2 f_{xy^2}(x,y) + \frac{1}{6}\delta y^3 f_{yyy}(x,y)$

$\delta^4 f(x,y) \approx \frac{1}{24}\delta x^4 f_{xxxx}(x,y) + \frac{1}{8}\delta x^3 \delta y f_{x^3y}(x,y) + \frac{1}{4}\delta x^2 \delta y^2 f_{x^2y^2}(x,y) + \frac{1}{4}\delta x \delta y^3 f_{xy^3}(x,y) + \frac{1}{24}\delta y^4 f_{yyyy}(x,y)$

$\delta^5 f(x,y) \approx \frac{1}{120}\delta x^5 f_{xxxxx}(x,y) + \frac{1}{24}\delta x^4 \delta y f_{x^4y}(x,y) + \frac{1}{12}\delta x^3 \delta y^2 f_{x^3y^2}(x,y) + \frac{1}{12}\delta x^2 \delta y^3 f_{x^2y^3}(x,y) + \frac{1}{24}\delta x \delta y^4 f_{xy^4}(x,y) + \frac{1}{120}\delta y^5 f_{yyyyy}(x,y)$

$\delta^6 f(x,y) \approx \frac{1}{720}\delta x^6 f_{xxxxxx}(x,y) + \frac{1}{240}\delta x^5 \delta y f_{x^5y}(x,y) + \frac{1}{96}\delta x^4 \delta y^2 f_{x^4y^2}(x,y) + \frac{1}{48}\delta x^3 \delta y^3 f_{x^3y^3}(x,y) + \frac{1}{96}\delta x^2 \delta y^4 f_{x^2y^4}(x,y) + \frac{1}{240}\delta x \delta y^5 f_{xy^5}(x,y) + \frac{1}{720}\delta y^6 f_{yyyyyy}(x,y)$

$\delta^7 f(x,y) \approx \frac{1}{5040}\delta x^7 f_{xxxxxxx}(x,y) + \frac{1}{1440}\delta x^6 \delta y f_{x^6y}(x,y) + \frac{1}{576}\delta x^5 \delta y^2 f_{x^5y^2}(x,y) + \frac{1}{288}\delta x^4 \delta y^3 f_{x^4y^3}(x,y) + \frac{1}{576}\delta x^3 \delta y^4 f_{x^3y^4}(x,y) + \frac{1}{1440}\delta x^2 \delta y^5 f_{x^2y^5}(x,y) + \frac{1}{5040}\delta x \delta y^6 f_{xy^6}(x,y) + \frac{1}{5040}\delta y^7 f_{yyyyyyy}(x,y)$

$\delta^8 f(x,y) \approx \frac{1}{40320}\delta x^8 f_{xxxxxxxx}(x,y) + \frac{1}{11520}\delta x^7 \delta y f_{x^7y}(x,y) + \frac{1}{4608}\delta x^6 \delta y^2 f_{x^6y^2}(x,y) + \frac{1}{2304}\delta x^5 \delta y^3 f_{x^5y^3}(x,y) + \frac{1}{4608}\delta x^4 \delta y^4 f_{x^4y^4}(x,y) + \frac{1}{11520}\delta x^3 \delta y^5 f_{x^3y^5}(x,y) + \frac{1}{40320}\delta x^2 \delta y^6 f_{x^2y^6}(x,y) + \frac{1}{40320}\delta x \delta y^7 f_{xy^7}(x,y) + \frac{1}{40320}\delta y^8 f_{yyyyyyy}(x,y)$

$\delta^9 f(x,y) \approx \frac{1}{362880}\delta x^9 f_{xxxxxxxxx}(x,y) + \frac{1}{103680}\delta x^8 \delta y f_{x^8y}(x,y) + \frac{1}{40320}\delta x^7 \delta y^2 f_{x^7y^2}(x,y) + \frac{1}{20160}\delta x^6 \delta y^3 f_{x^6y^3}(x,y) + \frac{1}{40320}\delta x^5 \delta y^4 f_{x^5y^4}(x,y) + \frac{1}{103680}\delta x^4 \delta y^5 f_{x^4y^5}(x,y) + \frac{1}{362880}\delta x^3 \delta y^6 f_{x^3y^6}(x,y) + \frac{1}{362880}\delta x^2 \delta y^7 f_{x^2y^7}(x,y) + \frac{1}{362880}\delta x \delta y^8 f_{xy^8}(x,y) + \frac{1}{362880}\delta y^9 f_{yyyyyyy}(x,y)$

$\delta^{10} f(x,y) \approx \frac{1}{3628800}\delta x^{10} f_{xxxxxxxxx}(x,y) + \frac{1}{1036800}\delta x^9 \delta y f_{x^9y}(x,y) + \frac{1}{403200}\delta x^8 \delta y^2 f_{x^8y^2}(x,y) + \frac{1}{201600}\delta x^7 \delta y^3 f_{x^7y^3}(x,y) + \frac{1}{403200}\delta x^6 \delta y^4 f_{x^6y^4}(x,y) + \frac{1}{1036800}\delta x^5 \delta y^5 f_{x^5y^5}(x,y) + \frac{1}{3628800}\delta x^4 \delta y^6 f_{x^4y^6}(x,y) + \frac{1}{3628800}\delta x^3 \delta y^7 f_{x^3y^7}(x,y) + \frac{1}{3628800}\delta x^2 \delta y^8 f_{x^2y^8}(x,y) + \frac{1}{3628800}\delta x \delta y^9 f_{xy^9}(x,y) + \frac{1}{3628800}\delta y^{10} f_{yyyyyyy}(x,y)$

$\delta^{11} f(x,y) \approx \frac{1}{39813120}\delta x^{11} f_{xxxxxxxxx}(x,y) + \frac{1}{11943040}\delta x^{10} \delta y f_{x^{10}y}(x,y) + \frac{1}{4587200}\delta x^9 \delta y^2 f_{x^9y^2}(x,y) + \frac{1}{2293600}\delta x^8 \delta y^3 f_{x^8y^3}(x,y) + \frac{1}{4587200}\delta x^7 \delta y^4 f_{x^7y^4}(x,y) + \frac{1}{11943040}\delta x^6 \delta y^5 f_{x^6y^5}(x,y) + \frac{1}{39813120}\delta x^5 \delta y^6 f_{x^5y^6}(x,y) + \frac{1}{39813120}\delta x^4 \delta y^7 f_{x^4y^7}(x,y) + \frac{1}{39813120}\delta x^3 \delta y^8 f_{x^3y^8}(x,y) + \frac{1}{39813120}\delta x^2 \delta y^9 f_{x^2y^9}(x,y) + \frac{1}{39813120}\delta x \delta y^{10} f_{xy^{10}}(x,y) + \frac{1}{39813120}\delta y^{11} f_{yyyyyyy}(x,y)$

$\delta^{12} f(x,y) \approx \frac{1}{477168000}\delta x^{12} f_{xxxxxxxxx}(x,y) + \frac{1}{143145600}\delta x^{11} \delta y f_{x^{11}y}(x,y) + \frac{1}{55974400}\delta x^{10} \delta y^2 f_{x^{10}y^2}(x,y) + \frac{1}{27987200}\delta x^9 \delta y^3 f_{x^9y^3}(x,y) + \frac{1}{55974400}\delta x^8 \delta y^4 f_{x^8y^4}(x,y) + \frac{1}{143145600}\delta x^7 \delta y^5 f_{x^7y^5}(x,y) + \frac{1}{477168000}\delta x^6 \delta y^6 f_{x^6y^6}(x,y) + \frac{1}{477168000}\delta x^5 \delta y^7 f_{x^5y^7}(x,y) + \frac{1}{477168000}\delta x^4 \delta y^8 f_{x^4y^8}(x,y) + \frac{1}{477168000}\delta x^3 \delta y^9 f_{x^3y^9}(x,y) + \frac{1}{477168000}\delta x^2 \delta y^{10} f_{x^2y^{10}}(x,y) + \frac{1}{477168000}\delta x \delta y^{11} f_{xy^{11}}(x,y) + \frac{1}{477168000}\delta y^{12} f_{yyyyyyy}(x,y)$

$\delta^{13} f(x,y) \approx \frac{1}{5806080000}\delta x^{13} f_{xxxxxxxxx}(x,y) + \frac{1}{1741824000}\delta x^{12} \delta y f_{x^{12}y}(x,y) + \frac{1}{661440000}\delta x^{11} \delta y^2 f_{x^{11}y^2}(x,y) + \frac{1}{330720000}\delta x^{10} \delta y^3 f_{x^{10}y^3}(x,y) + \frac{1}{661440000}\delta x^9 \delta y^4 f_{x^9y^4}(x,y) + \frac{1}{1741824000}\delta x^8 \delta y^5 f_{x^8y^5}(x,y) + \frac{1}{5806080000}\delta x^7 \delta y^6 f_{x^7y^6}(x,y) + \frac{1}{5806080000}\delta x^6 \delta y^7 f_{x^6y^7}(x,y) + \frac{1}{5806080000}\delta x^5 \delta y^8 f_{x^5y^8}(x,y) + \frac{1}{5806080000}\delta x^4 \delta y^9 f_{x^4y^9}(x,y) + \frac{1}{5806080000}\delta x^3 \delta y^{10} f_{x^3y^{10}}(x,y) + \frac{1}{5806080000}\delta x^2 \delta y^{11} f_{x^2y^{11}}(x,y) + \frac{1}{5806080000}\delta x \delta y^{12} f_{xy^{12}}(x,y) + \frac{1}{5806080000}\delta y^{13} f_{yyyyyyy}(x,y)$

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