| MATH 251, Section        | Quiz 4 (Sections 12.3, 12.4). |
|--------------------------|-------------------------------|
| Thursday, Sept. 27, 2013 | Dr. M. Vorobets               |
| NAME (print):            |                               |

No credit for unsupported answers will be given. Calculators can be used for simple arithmetic operations only! Clearly indicate your final answer

1. [5 pts.] Find all second partial derivatives of the function  $f(x,y)=x^3\ln(x-y)$ .

2. [5 pts.] Use differentials to approximate the number  $\sqrt{0.99}e^{0.02}$