

Name: \_\_\_\_\_

**Math 2030, Winter 2016, Quiz 4**  
**10 February 2016**  
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*No calculators needed or allowed.*

Let  $f(x, y) = x^3y + \frac{y}{x}$ . Compute the partial derivatives

1.  $f_x$

2.  $f_y$

3.  $f_{xx}$

4.  $f_{xy}$

5.  $f_{yy}$