## $\begin{array}{c} {\rm Quiz} \ 6 \mbox{ - MA16010 - October 4, 2017} \\ {\rm Alden \ Bradford} \end{array}$

- 1. (2 points) Use implicit differentiation to find  $\frac{dy}{dx}$ when  $xy^2 = 2\ln(x)$ .
- 2. (3 points) The sides of an ice cube are shrinking at a rate of 2 centimeters per hour. How fast is the volume of the ice cube decreasing when the side length of the cube is 3 centimeters?