MAT337H1, Introduction to Real Analysis: recommended problems for Jan 6 class

- 1. Explain why any rational number can be written as $\frac{p}{q}$ where $p,q\in\mathbb{Z},\ q\neq 0$, and at least one of the numbers p,q is odd.
- 2. Show that if $x \in \mathbb{Q}$, and $x^2 \in \mathbb{Z}$, then $x \in \mathbb{Z}$.