- 1. Let $f, g : \mathbb{R} \to \mathbb{R}$.
 - (a) If f and g are both increasing, then f + g is increasing.

(b) If *f* and *g* are both increasing, then $f \cdot g$ is increasing.

2. If $f : A \to B$ and $g : B \to C$ are surjective functions, then $g \circ f$ is surjective.

3. If $f : A \to B$ is a bijection, then f is invertible.

4. If *A* is equipollent to *B*, then *B* is equipollent to *A*.

5. The set of throdd natural numbers is countable. (Yes, you need to include the details)