## Math 2001 - Assignment 14

Due December 9, 2015

- Is f: Z → Z × Z, x ↦ (x<sup>2</sup>, 2x) injective, surjective?
  Find the inverse for f: R<sup>2</sup> → R<sup>2</sup>, (x, y) ↦ (3x + y, x 2y).
  Let f: A → B and g: B → C be surjective. Show that g ∘ f is surjective.