MAT258S25 Proof 2

Kishan S Patel

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$$\text{let } f : A \to B$$
$$\text{let } g : B \to C$$
$$A \neq \emptyset$$
$$B \neq \emptyset$$
$$C \neq \emptyset$$

1. If $f \circ g$ is injective, then g is injective.

   Proof.

   $$\exists x, y \in B \ : x \neq y, g(x) = g(y)$$

   QED