

Tutorial for Week 5 - Answers

Ben Weston

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5. (a)
 - Not injective as $f(-1) = f(1) = 1$.
 - Not surjective as no x maps to 3.
- (b)
 - Injective as no value is repeated and different inputs give different outputs.
 - Not surjective as no x maps to 3.
- (c)
 - Injective as no value is repeated and different inputs give different outputs.
 - Surjective as the range of f coincides with the co-domain of f .