A1.6.1:

- (a) A function such that $x \neq y$ implies $f(x) \neq f(y)$
- (b) Horizontal line test

A1.6.2:

- (a) $f^{-1}(y)$ is defined for y as the unique x such that f(x) = y.
- (b) Solve for f(x)
- (c) Flip along the line y = x
- **A1.6.3:** Is one-to-one
- **A1.6.4:** Is one-to-one
- **A1.6.5:** Is not one-to-one. For example multiple x map to 0
- **A1.6.6:** Is not one-to-one. For example multiple x map to 0
- **A1.6.7:** Is one-to-one.
- **A1.6.8:** Is one-to-one
- **A1.6.9:** Is one-to-one
- A1.6.10: Is not one-to-one. Graph is a parabola
- A1.6.11: Is not one-to-one.
- **A1.6.12:** Is one-to-one.
- **A1.6.13:** Is not one-to-one.
- A1.6.14: Should be one-to-one.
- **A1.6.15:** Skip
- **A1.6.16:** Skip
- **A1.6.17:** 2

A1.6.18:

- (a) x = 0
- (b) x = 5
- **A1.6.19:** x = 0

A1.6.20:

- (a) Passes the vertical line test
- (b) The domain of f^{-1} is the range of f, [-2,2]. The range of f^{-1} is the domain of f, [-3,3]
- (c) 2