Worksheet 9

Functions

- 1. Given $f(x) = x^2 + 1$ and g(x) = x 3. (a) Solve the value of f(g(2)).

 - (b) Determine the values of x if g(f(x)) = 7.
 - (c) Identify $g^{-1}(5)$.
- 2. Identify the inverses of the following functions.

 - (a) y = 3x + 2(b) $y = \frac{1}{4-x}$
- 3. Determine whether the relation given is a function. Explain your answer.

Domain	Range
2	6
5	7
6	9
6	10

- 4. Identify the value of

 - (a) $\lfloor -3.2 \rfloor$ (b) $\lceil -9.45 \rfloor$
 - (c) $\lceil \lfloor 3.89 + 2.3 \rfloor \times 2 \rceil$