Homework 6

**Page 152**

**Problem 2**

1. No, since there can be 2 images, n or –n.
2. Yes.
3. No, it is undefined at n = 2 or n = -2.

**Problem 6**

1. Doman: Z+ x Z+ Range: Z+
2. Domain: Z+ Range: {x ∈ Z+|x < 10}
3. Domain: Set of bit strings Range: Z
4. Domain: Z+ Range: Z
5. Domain: Set of bit strings Range: N

**Problem 8**

1. 1
2. 2
3. -1
4. 0
5. 3
6. -2
7. 1
8. 2

**Problem 20**

1. f(x) = x + 2
2. f(x) = xsin(x)
3. f(x) = 2x
4. f(x) = 0

**Problem 22**

1. Yes
2. No
3. No
4. Yes