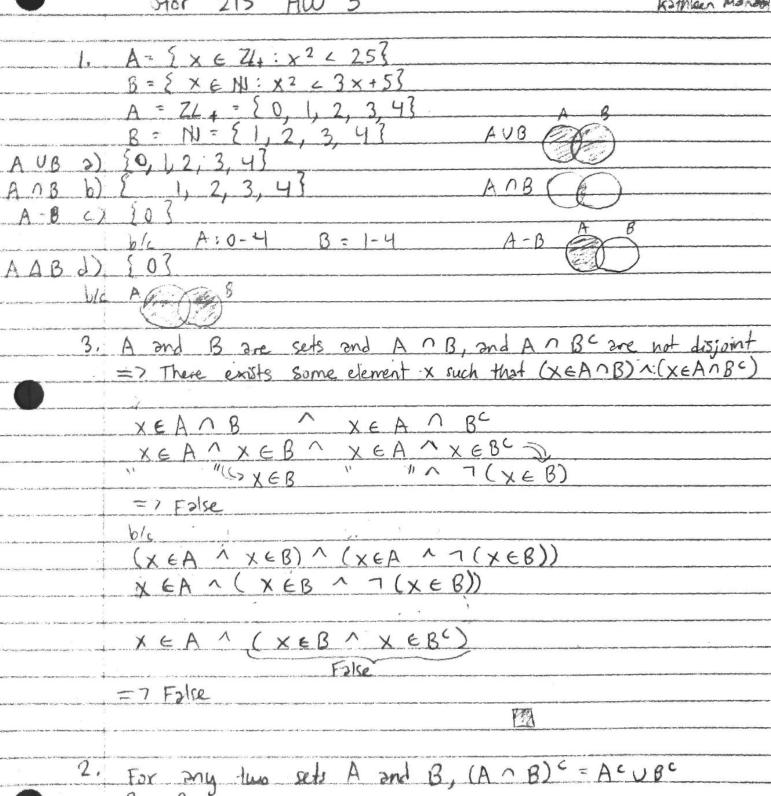
XES-7 ACUBC

=77(x &A) V 7(X &B) =77(X &A ^ B)



```
=7 X E IR = X E (A M B) C
and IR E S
   XER=7 XE(AMB)C
=77XEAV7XEB
    =7 XEAC UXEBC
=7 XES => XEAC UBC
                                                                                           13
4. Function f given: f(red) = blue, f(green) = yellow,

f (blue) = green, f (yellow) = red

Domain : A: D: { red, green, blue, yellow}

Range B: R: { blue, yellow, green, red}

As a function from A to B, f is one-to-one

and f is onto.

c) f-1 exists blc the function is a bijection.

f-1 (blue) = red, f-1 (yellow) = green,

f-1 (green) = blue, f-1 (red) = yellow
5. function is increasing if x \ge y = 7f(x) \ge f(y)
if f(x) \ge f(y)
        therefore: f(x) + g(x) = f(y) + g(y)
```