```
(O) FU(CAX. Ay. X) (AZ.y))
     = FV(LX. LY. X) U FV(LZ. y)
      =(FV (AY.X) - {X}) V {y}
      = (\{x\} - \{x\}) \cup \{y\}
      = {y}
 (b) (1x. 1y. x) (12. y)
    = (NX. At. Et/y) X) (NZ. Y)
    = (\lambda x \cdot \lambda t \cdot x) (\lambda z \cdot y) = \{\lambda z \cdot y/x\} (\lambda t x)
(C) Wrong Step:
                           = 秋、入主、少
     (1) X. My, X) (1) In the wrong steps, the result is totally different with (b), the inner y
   = {NZ·Y/X] (NY,X) is bound. However, it's suppose
                              to be free!
   = Ay. AZ.y
```

```
2 (\lambda f, \lambda x, fcf(fx))) (\lambda y, y+2) 2

= (\lambda y, y+2) (f) (\lambda x fcf(fx)) 2

= (\lambda x, (c\lambda y, y+2) (a\lambda y
```

3. $(14.19.f(g_2))(\lambda x.x+ts)(\lambda y.2-y)$ = $((14.19.f(g_2))(\lambda x.x+ts)(y.2-y)$ = $((14.19.f(g_2))(\lambda y.2-y)$ = $((14.19.f(g_2))(\lambda x.x+ts)((14.2-y))$ = $((14.19.f(g_2))(\lambda x.x+ts)((14.2-y))((14.2-y))$ = $((14.19.f(g_2))(\lambda x.x+ts)((14.2-y))((14.2-$