```
1. y_2 = y_1 \implies h = \int_{-\infty}^{-\infty} ual(y_1) + val(y_2)
with x = val(Y_n) + val(Y_z)
3. and 4. clear as \left| \begin{pmatrix} c_{12} \\ t_{12} \end{pmatrix} \right| = \begin{pmatrix} c_{12} \\ t_{12} \end{pmatrix}
1. see couse
?. Recomplike Greepk, n_b for b \in {0,13} and compare ciphutext
3. above attack works for all det. schumes
4. - set signature on some M., M.
      4 hom. comparts righter on Mo.M.
   - G mod N is a signature for M = OV mod N
5. - signature: hash mussage first
   - RSA: pad Massage with randomness (carefully!)
6. similar to BLS sounity (last TD)
<u>6x 3</u>,
1. Sec 2.QS, adds randomnuss, nitigaks homomorphism-klated problems
    a sever could atum an enor missage in cose the missage is not
2.
      PKCS orbining, else accept the missage who emor
      Lo leads to such an vacle
     given c \in \mathbb{Z}_n, choose S_0 until C_0 = c(S_0)^c mod n is PKCS animing C_0 = c(S_0)^c mod n is PKCS animing
     we have: M = (c(5)e) mod n
          => (m·5,1) = c mod n
              signatur for c
M.-an attack breaks a system if it works sometimes, a cryptosystem
    should be seur always.
  - affects can be checked via an implementation
     (if it works well in practice, the attack is devastating even if we
      have no nice theoretical proof )
```

Renaining questions follow the analysis in:

https://archiv.infsec.ethz.ch/education/fs08/secsem/bleichenbacher98.pdf

(section 5.2, pages 5-8)