

SKETCH OF SOLUTIONS (HOMEWORK VI)

- 11.5 a) 59 b) 262 c) 866
- 11.8 If $\phi(m)$ is a prime then $m = 2, 3$ If $\phi(m)$ is a power of a prime, then $m = 2^k, 3$
- 11.9 187, 205, 328, 352, 374, 400, 410, 440, 492, 528, 600, 660
- 11.10 a) $m = 2^k$ b) $m = 2^t 3^s$ c) no solutions
- 11.11 a) 2 \sim 9376 3 \sim 0001 4 \sim 9376 5 \sim 0625 6 \sim 9376 7 \sim 0001 8 \sim 9376
9 \sim 0001 10 \sim 0000
- The checkdigit is 3
 - No, the checkdigit should be 8