

HW3, due date September 30.

1. Problem 24, Section 3.13, page 108. (5 points)
2. Problem 3, Section 6.8, page 192. (5 points)
3. Problem 6, Section 6.8, page 192. (5 points)
4. Problem 7, Section 6.8, page 193. (5 points)
5. Problem 9, Section 6.8, page 193. (15 points)

6. (For graduate students only.)

Problem 14, Section 6.8, page 194. (5 points)

Note: your solution should be an "efficient" algorithm, i.e., one that runs in time polynomial in $\log(pq)$. In particular, you should not use exhaustive search of all positive integers $x < pq$.