Math 5385 – Homework VI

Due Wednesday, December 15 (last day of class)

From the text.

Section | Problems
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4.3  | 1, 8, 12
4.5  | 2, 3
4.6  | 1, 2

Hint: For 4.3.12, let $I = \langle f_1, \ldots, f_r \rangle$ and let $l_i$ be powers such that $f_i^{l_i} \in J$. You need to show that for $f = a_1 f_1 + \cdots + a_r f_r \in I$, some power $f^m \in J$. $m = r(\max l_i)$ will do it.