

Assignment for Tuesday 2/13

I Exercises from book:

Section 4.2 \rightarrow 3, 5, 9, 12a, 13, 15

Section 4.3 \rightarrow 2abc, 5ab, 7, 16, ~~17~~b, 19

II Supplementary Exercises:

(17) Let $N = (a_m a_{m-1} \dots a_2 a_1 a_0)_{10}$ be the decimal representation of N .

Let $M = a_m \cdot 10^{m-1} + a_{m-1} \cdot 10^{m-2} + \dots + a_2 \cdot 10 + a_1$

a) Show that $7|N \iff 7|M - 2a_0$

b) Show that $13|N \iff 13|M - 9a_0$