All answers must be justified appropriately.

From Treil do problems:
page 97: 3.7.2
page 104-for these three problems you may assume, following Treil, that the field $\mathbb{F}$ is the real or complex field: 4.1.1, 4.1.2, 4.1.4, page 104: 4.1.5, 4.1.6
page 114:
4.2.1,
4.2.3 (assume that $5 \neq 0$ in $\mathbb{F}$ ),
4.2.6 (assume that $2 \neq 0 \neq 3$ in $\mathbb{F}$ ),
4.2.8 (assume that $7 \neq 0$ in $\mathbb{F}$ ).

