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*All answers must be justified appropriately.*

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From TREIL do the following exercises.

(Note that when we refer to Exercise a.b.c, we mean Exercise b.c from Chapter a.)

page 29-30: 1.6.2, 1.6.6, 1.6.8, 1.6.10, 1.6.12, 1.6.13

page 31: 1.7.2

1. Let  $T: V \rightarrow W$  be a linear transformation. Prove that the range of  $T$ ,  $\text{Ran}(T)$ , is a subspace of  $W$ .