

HW5

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from Section 1.6: exercises 30,33

from Section 2.1: exercises 1,3,6,9,10,11,14,17,20,21,22.

1.6

30. Let $V = M_{2 \times 2}(F)$, $W_1 = \left\{ \begin{pmatrix} a & b \\ c & d \end{pmatrix} \in V : a, b, c \in F \right\}$