

Assignment

1.5: 2(bdfg), 11, 15; 1.6: 20, 24, 31; 2.1: 6, 12, 14; 2.2: 2(bcg), 8, 11

Work

1.5

2. Determine whether the following sets are linearly dependent or linearly independent.

(b)

$$\left\{ \begin{pmatrix} 1 & -3 \\ -2 & 4 \end{pmatrix}, \begin{pmatrix} -2 & 6 \\ 4 & -8 \end{pmatrix} \right\} \text{ in } M_{2 \times 2}(R)$$

(d)

(f)

(g)

15. 1.6

20.

24.

31. 2.1

6.

12.

14. 2.2

2.

8.

11.