

Question 4

- Spanning Sets
- Determinant of a Matrix

$$Q = \{1 + 2x, 2x + x^2, 4 + 2x - 3x^2\}$$

We must compute the determinant of the following matrix.

$$\begin{pmatrix} 0 & 1 & 3 \\ 1 & 3 & 1 \\ 2 & 4 & 1 \end{pmatrix}$$

- Define $\text{span}(Q)$.
- What is the dimension of $\text{span}(Q)$?

Question 5: Gram Schmidt Process

x	f(x)
1	1
2	1
3	1
4	1
5	1