The following are outlines of solutions extracted from the annual reports of past Hong Kong Advanced Level examinations. Readers should note that they are not meant to be model answers.

## Outline of Solutions

**1980**

**Paper I**

**Q.1** (a) (i) Using properties of matrices, we have $A\underline{0} = \underline{0}$, and for any $\underline{x}, \underline{y} \in E$, and any $\alpha, \beta \in \mathbb{R}$,

$$A(\alpha\underline{x} + \beta\underline{y}) = \alpha(A\underline{x}) + \beta(A\underline{y}) = \underline{0}.$$

Hence $\underline{0} \in E$, and for any $\underline{x}, \underline{y} \in E$, and any $\alpha, \beta \in \mathbb{R}$, $\alpha\underline{x} + \beta\underline{y} \in E$, showing that $E$ is a subspace of $V$.

(ii) If $\underline{y} = \underline{p} + \underline{x}$ with $\underline{x} \in E$, then $A\underline{y} = A(\underline{p} + \underline{x}) = A\underline{p} + A\underline{x} = \underline{b}$. On the other hand, if $A\underline{y} = \underline{b}$, then putting $\underline{x} = \underline{y} - \underline{p}$, we have $A\underline{x} = A\underline{y} - A\underline{p} = \underline{0}$, showing $\underline{x} \in E$ and $\underline{y} = \underline{p} + \underline{x}$.

(b) (i) By routine method,

solution set $= \{(3t, -2t, 5t) : t \in \mathbb{R}\}$.

(ii) Applying (a)(ii) and (b)(i),

solution set $= \{(1\frac{1}{2} + 3t, \frac{4}{3} - 2t, \sqrt{2} + 5t) : t \in \mathbb{R}\}$.

**Q.2** (a) Reflexive: Let $f(x) \equiv 1$.

For any $f \in F$, $f \cdot f = f \cdot f$ and $f$ is a polynomial, therefore $f \sim f$.

Symmetric: If $f \sim g$, then there exist polynomials $p, q \in F$ such that

$$p \cdot f = q \cdot g \text{ or } q \cdot g = p \cdot f.$$

$\therefore g \sim f$.

Transitive: If $f \sim g$ and $g \sim h$, then there exist polynomials $p, q, r, s \in F$ such that

$$p \cdot f = q \cdot g, \quad r \cdot g = s \cdot h.$$

Noting $\cdot$ is commutative and associative, we get $(r \cdot p) \cdot f = (q \cdot s) \cdot h$ where $r \cdot p$ and $q \cdot s$ are both polynomials in $F$. Thus $f \sim h$.

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