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Proof of ① : Again by the symmetry, ...

(i) type 1

$\{E_1, \cdots E_6\}$.

$\Rightarrow$ $\{E_1, \cdots E_5\}$ has the unique line G_6 ...etc.

(ii) type 2.

$\{E_1, E_2, E_3, F_{45}, F_{56}, F_{46}\}$.

ⓐ $\{E_1, E_2, E_3, F_{56}, F_{45}\}$ has the unique line G_5

ⓑ $\{E_1, E_2, F_{45}, F_{56}, F_{46}\}$ has the unique line F_{12}

(iii) type 3

$\{E_1, G_1, F_{23}, F_{24}, F_{25}, F_{26}\}$

ⓐ $\{F_{23}, F_{24}, F_{25}, F_{26}, E_1\}$ has the unique line G_2

ⓑ $\{F_{23}, F_{24}, F_{25}, F_{26}, G_1\}$ has the unique line E_2

ⓒ $\{F_{23}, F_{24}, F_{25}, E_1, G_1\}$ has the unique line F_{16}

(iv) type 4

$\{G_1, G_2, G_3, F_{45}, F_{56}, F_{46}\}$

ⓐ $\{G_1, G_2, G_3, F_{45}, F_{56}\} \Rightarrow E_5$.

ⓑ $\{G_1, G_2, F_{45}, F_{56}, F_{46}\} \Rightarrow F_{12}$

(v) type 5

$\{G_1, G_2, G_3, G_4, G_5, G_6\}$.

$\Rightarrow$ $\{G_1, G_2, \cdots G_5\} \Rightarrow G_6$.

Let $\{\tau_1, \cdots \tau_6\}$ be a set of six disjoint lines on S.
Define $\phi : K \to K$ by

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