since h_L is a 2-plane.

$\Rightarrow \quad \sigma(p_L) \cup \sigma(h_L) \subset \bigcap_{x \in L} \sigma(l_x)$.

$\Rightarrow \quad \sigma(p_L) \cup \sigma(h_L) = \bigcap_{x \in L} \sigma(l_x)$

⌟

We can get a nice picture of the relations among the Schubert cycles on G by considering again the locus $T_x(G) \cap G$. As we have seen, if $V_3 \subset T_x(G)$ is any 3-plane not containing x

$$G \cap T_x(G) = \bigcup_{y \in V_3 \cap G} \overline{xy},$$

i.e., $G \cap T_x(G)$ is the cone over the smooth quadric surface $Q = V_3 \cap G$. (See Figure 5.)

⌜ See p134

⌟

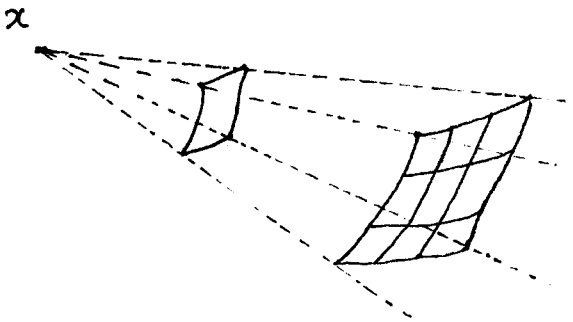

Figure 5. $T_x(G) \cap G$.