Figure 1.1

A cube with a smaller cube removed from its interior

Figure 1.2

Figure 1.3

A prism with a hole straight through the centre

From "Basic Topology," by M.A. Armstrong
Figure 1.5

Tree $T$

$A$

$B$

$C$

$D$

Associated tree $\Gamma$

$\hat{A}$

$\hat{B}$

$\hat{C}$

$\hat{D}$

$\Gamma$ represented on $P$

$T$ and $\Gamma$ thickened on $P$

Figure 1.6

Figure 1.7

identify boundaries
From "Basic Topology," by M.A. Armstrong