7. Consider the following topologies on $\mathbb{R}$:

$\mathcal{T}_1 =$ the standard topology,
$\mathcal{T}_2 =$ the topology of $\mathbb{R}_K$,
$\mathcal{T}_3 =$ the finite complement topology,
$\mathcal{T}_4 =$ the upper limit topology, having all sets $(a, b]$ as basis,
$\mathcal{T}_5 =$ the topology having all sets $(-\infty, a) = \{x \mid x < a\}$ as basis.

Determine, for each of these topologies, which of the others it contains.

(from Basis for a Topology)