

## ADDITIONAL PROBLEMS

1. Let  $L(x) = ax : R \rightarrow R$ , where  $a \in R$ . Find all possible  $b \in R$ , such that  $L_1(x) = bx : R \rightarrow R$  is topologically conjugate to the linear map  $L$ . Discuss in detail for the case that  $a > 1$ .