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FIGURE 5.15 Network motifs in sensory transcription networks.

EXERCISES

5.1. Equal timing. Consider a SIM controlled by regulator $X$ that activates downstream genes $Z_i$, $i = 1, \ldots, n$, with thresholds $K_i$. At time $t = 0$, $X$ begins to be produced at a constant rate $\beta$. Design thresholds such that the genes are turned on one after the other at equal intervals (use logic input functions).