EXERCISE 8:

Consider the following graph, where the delivery ratio between nodes is displayed on the directed edges. Missing edges correspond to a delivery ratio of 0.

1. Compute the ETX rounded to multiples of 0.25, i.e. \( \frac{1}{4} \left\lfloor \frac{4}{d_e - d_f} \right\rfloor \), and add the edges to the following figure.
2. Compute the optimal Collection Tree for sinks $S_1$ and $S_2$ based on ETX computed above.

3. Compute the optimal DAG for RPL for sinks $S_1$ and $S_2$ based on the same ETX.
4. Now $S_2$ fails. Show the new DAG for RPL. Show the floating DAG.

Graphs for your convenience.