Problem 1:

14 = 2

K=3:

= [(hred + hg) + (hg + hq + h6 + hred)]

right -)

Left and right graphs don't have similar embeddings after 3 message passings.

Problem 2:

$$H^{(l)} = (D^{-1}A)H^{(l-1)} = (D^{-1}A)^{l}H^{(0)} \rightarrow \text{effects of nodes becomes less}$$
as  $l \rightarrow \infty$ 

with respect to the hint, we can consider this as a Markov chain, transition matrin being D'A. D'A is irreducible and can take us from any state to any other state. It is also aperiodic because starting from state i, we don't

know when we will return to the same state after some transition.

KOKUYO LOOSE-LEAF 2-8368T 6 mm ruled x 36 line