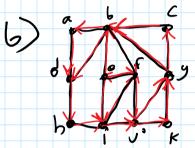


a) verter-degrees: (2,6,2,4,4,4,4,2,4,4,2)

Since every vertex has an even degree, an example of a euror circuit is:

c, b, a, b, h, e, d, b, e, f, b, g, j, i, f, j, t, g, c



vertex-degrees: (2,6,2,3,3,4,4,2,4,4,2)

since it has exactly 2

odd numbers an euler-circuit

can therefore be.

e,i,f,j,g,b,f,e,b,d,a,b,C,g,k,j,i,h,d

6)a) If there exists B7UCV such that all the edges in G. are on the form Ex,yg, for x1y & U. Then the subgraph G1 of GI (VIE) is an induced subgraph.

Ga is not an induced subgraph if it exists an edse &x,y& for x,y \(\mathbb{U} \)

- By removing edges Soii, &, & aid & and Seiffe we set a subgraph that is not induced
- 7) $\frac{\hat{S}}{\hat{S}} des(v_r) = 2|E|$ $\frac{\hat{S}}{\hat{S}} des(v_r) = 34$ $34 = 3|V| D |V| = \frac{34}{3}$ $|V| \approx 11$ Maximum |V| = 15 |V|