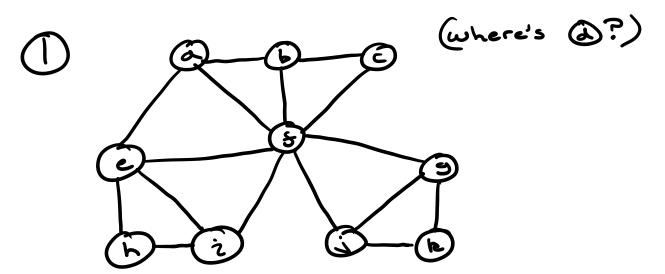
Thursday, February 22, 2024 5:22 PM



closed ear de composition:

 $P_{o} = \{(5, 2), (2, h), (h, e), (e, a), (a, b), (b, c), (c, 5)\}$

 $P_{1} = (e, i)$ $P_{2} = (e, 5)$ $P_{3} = (5, 0)$

Py = (5,6)

P5= 5(5, 5), (5, b), (k,g), (g, 5)}

P6 = (j,g)

Open ear de composition not possible due to cut vertex 5

This implies that for the above G: $K'(G) \ge 2$, K(G) = 1 K'(G)=2,K(G)=1

closed ear decomp. no open ear decomp, but G is still connected

(2) a) is useless for us (classic Slota trick) b) we know of (G) bounds both K(G) and K'(G) above

> c) We proved that this is an equivalent statement to saying F is at least Z-connected d) we noted that this implies G 13 at least 2-edge-connected

=> K(C)=K,(C)=5 0

(Note, we can also say that G is 1-connected and 1-edgeconnected, but the above is sufficient)

sufficient)