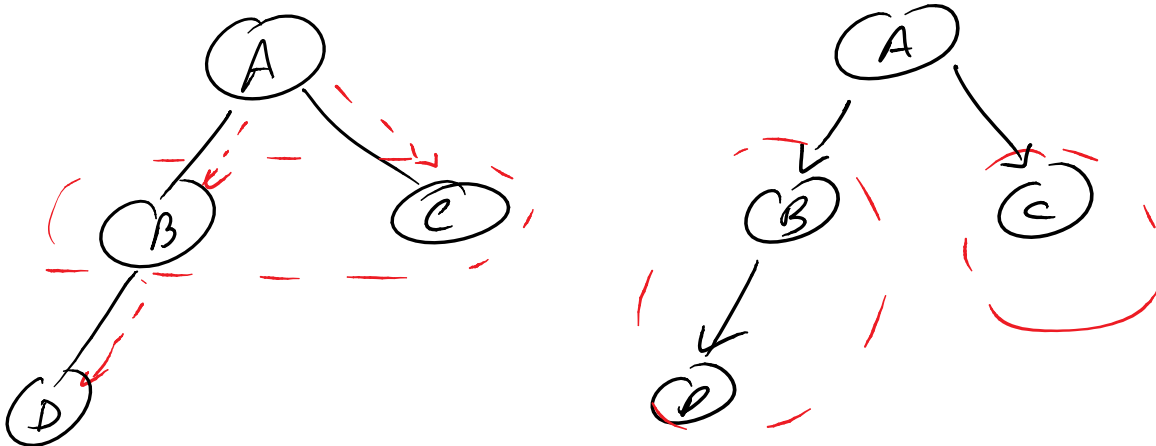


Second Exam

Friday Nov 14, 2014

Graph Structure



Graph $::= (V, E)$

V - set of vertices or nodes

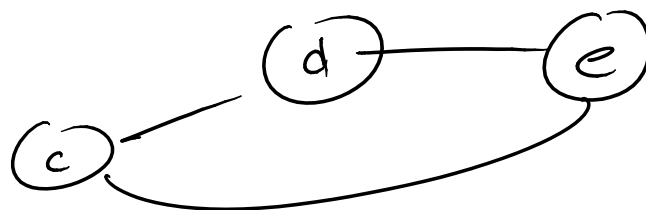
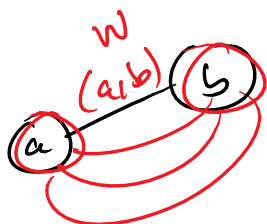
E - set of edges or arcs
or links

E - edges are a relation
on the vertices

$$E = \{ (x, y) \mid x \in V \text{ and } y \in V \}$$

$$V = \{ a, b, c, d, e \}$$

$$E = \{ (a, b), (c, d), (d, e), (c, e) \}$$



Undirect Graph

$$G = (V, E)$$

Direct Graph

$$DG = \langle V, E \rangle$$

$$V = \{ a, b, c \}$$

$$V = \{ a, b, c \}$$

