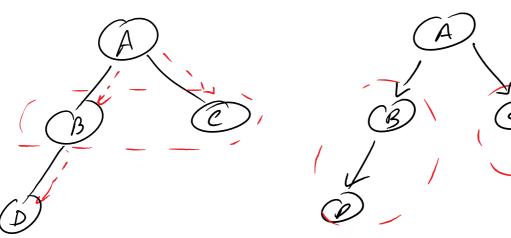
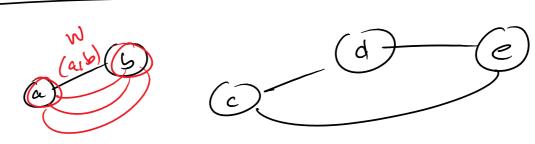


Second Exam
Friday Nov 14, 2014

Graph Structure



Graph := (V, E) V - Set of vertices or nodes E - Set of edges or arcs or links E - edges me a velation on the ventices E = \(\(\times \) $V = \begin{cases} a, b, c, d, e \end{cases}$ $E = \begin{cases} (a,b), (c,d), (d,e), (c,e) \end{cases}$



Undived Graph G = (V,E)Direct Graph $DG = \langle V,E \rangle$ $V = \{a,b,c\}$ $V = \{a,b,c\}$

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$$V = \begin{cases} a, b, c \end{cases}$$

$$E = \begin{cases} (a,b), (b,e) \end{cases}$$

$$(b,a) (c,b)$$

$$(a) - (b) - (c)$$

$$V = \begin{cases} a, b, c \end{cases}$$

$$E = \begin{cases} \langle a, b \rangle, \langle b, c \rangle \end{cases}$$

$$\langle b, a \rangle, \langle c, b \rangle$$

$$a \rightarrow b \rightarrow c$$