

Verkefni

April 4, 2018

14.1

a)

Node	primal flows
a	$X_{ab} - X_{da} + X_{af} = 9$
b	$X_{ab} + X_{cb} - X_{bg} - X_{bh} = 0$
c	$X_{cb} = 3$
d	$-X_{da} - X_{de} = 17$
f	$X_{af} = 0$
g	$-X_{bg} + X_{gi} = -8$
h	$X_{bh} = 3$
i	$X_{gi} = 8$

b)

Vel rótar hnút

$$y_b = 0$$

cb

$$y_b - y_c = -10$$

$$y_c = -10$$

ab

$$y_b - y_a = -3$$

$$y_a = 3$$

bh

$$y_h - y_b = 5$$

$$y_h = 5$$

$$y_g = 1 \quad y_i = 6, \quad y_f = 1, \quad y_d = 2, \quad y_e = 5$$

c)

leggir

$$Z_{fc} = 18, \quad Z_{ea} = 8, \quad Z_{fe} = 9, \quad Z_{ha} = 8, \quad Z_{ic} = 19, \quad Z_{gh} = 9, \quad Z_{dh} = -1, \quad Z_{ca} = 9, \quad Z_{ib} = 13$$

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a)

a fer úr grunni

b)

Leggurinn sem er í hring rás er GF

15.1

Vendi um punktana $X_{11}, X_{12}, X_{21}, X_{22}$ og fæ
 $X_{11} = -1, X_{12} = 13, X_{21} = 11, X_{22} = 0$