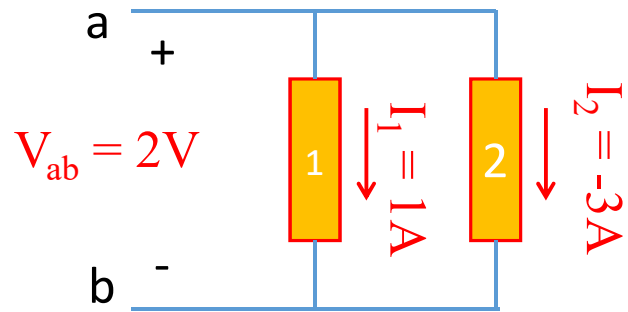EECS/CSE 70A Network Analysis I

Homework #1
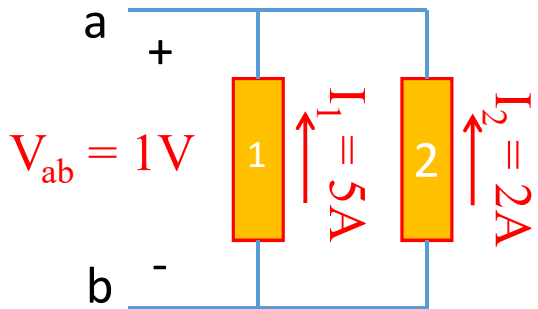
Due on or before
4/12/2018, Thursday 11 am at ELH 110
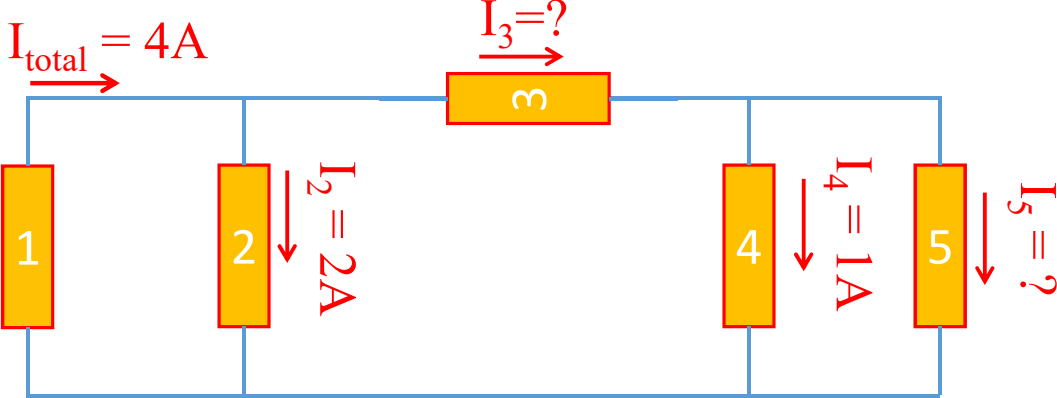
Problem 1: Find the power absorbed or supplied by each element.

a

+

$V_{ab} = 2V$

1   $I_1 = 1A$

2   $I_2 = -3A$

-

b

Problem 2: Find the power absorbed or supplied by each element.

a

+

$V_{ab} = 1V$

1   $I_1 = 5A$

2   $I_2 = 2A$

-

b

Problem 3: Find the current I_3 and I_5 flowing through elements 3 and 5.

Problem 4:
a) Find I_2
b) Find the power absorbed or supplied by each element.
c) Is element 1 a source or a sink? Repeat for elements 2, 3 and 4.