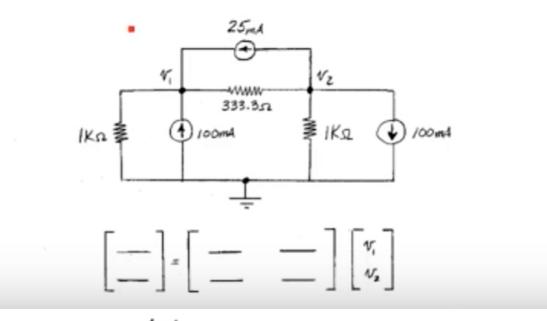
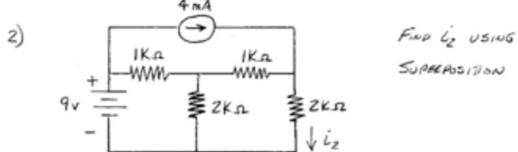
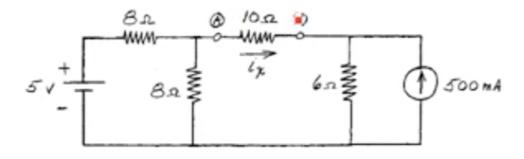
HOMEWORK-II

1) A) WRITE THE NORE EQUATIONS FOR THE CIRCUIT BELOW

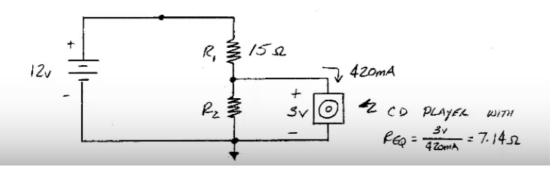




3) FIND THE THEVENIN EQUIVALENT CIRCUIT LOOKING INTO TERMINALS A-B AND SOLVE FOR ix.



- 4) A SONY DISCHAU CD PLAYER (MODEL DISI) OPERATES
 WITH TWO AA BATTERIES. THIS IS A TOTAL VOLTAGE
 OF 2.1.5 = 3v. THE PLAYER DRAWS A MAXIMUM
 CURRENT OF 420 MA.
 - A) DESIGN A VOLTAGE DIVIDER SUCH THAT WE COULD USE THIS PLAYER IN A CAR IF R, = 15 sz, THAT 15, FINO RZ FOR THE FOLLOWING CIRCUIT:



4) B) THE MINIMUM CURRENT (DURING PLAYBACK) 13 APPRIX.

250 mA. THIS GIVES AN REQ = 34/250 mA = 12.52.

USINE YOUR RZ FOUND IN A), CACCULATE THE

VOLTNGE ACROSS THE CO PLAYER UNDER THESE

CONDITIONS.