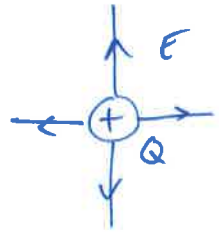
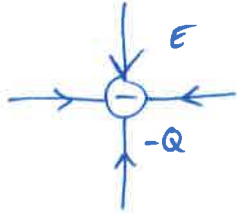


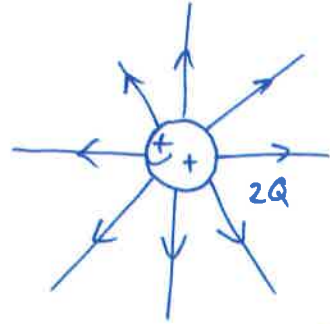
SÄHKÖKENTTÄ E



POSITIIVISESTA  
POIS

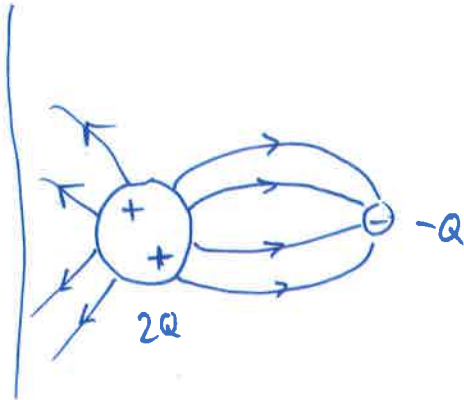
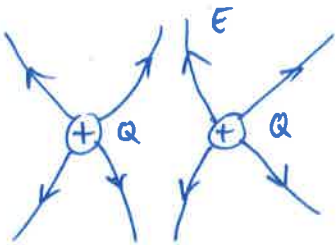


NEGATIIVINEN  
NIELU

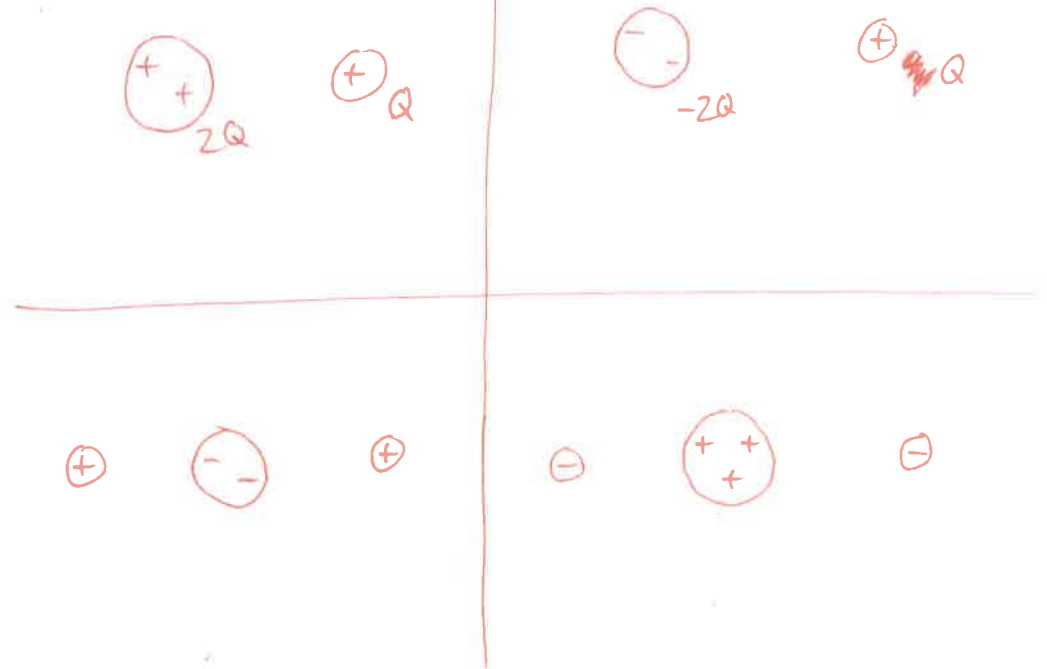


2-KERTAINEN VARAUS  
2-KERTAINEN E

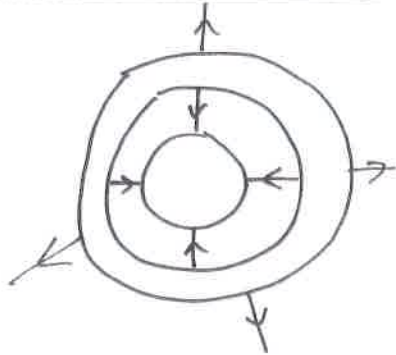
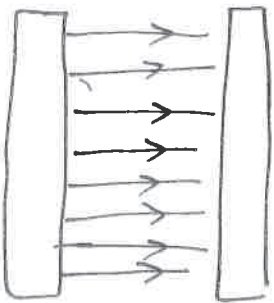
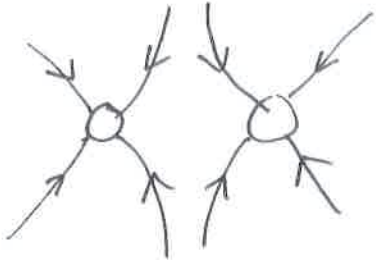
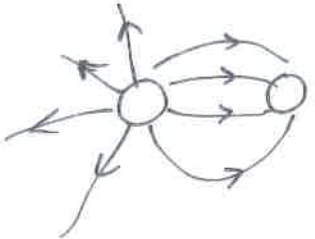
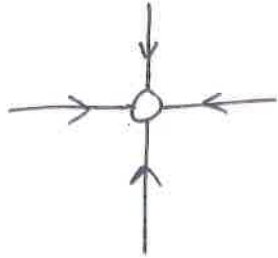
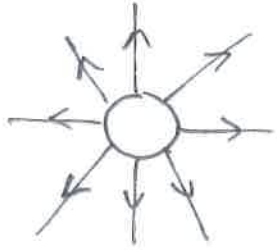
KENTTÄVIIVAT EIVÄT LEIKKAA



PIIRRI E



PIIRÄ PUNTO VAT VARAUKSET



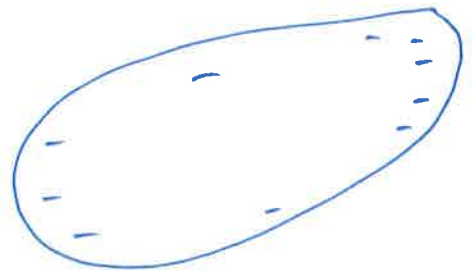
INDUSOITU VARAUSJÄRJELMÄ

ALUSSA JOHDE



EI VARAUS-  
JAKAUMAA

JOHTESSA VARAUS KASAANTUU PINNALLE  
JA PINNALLA KÄYRKIIN

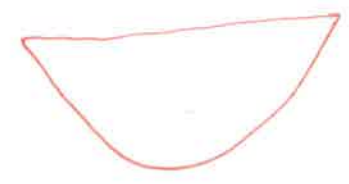


10 kpl ⊖

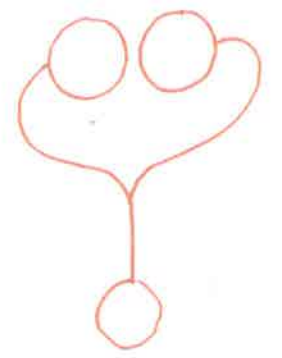
PILRRI VARAUS JAKAUMA



SIJOTA 10 kpl ⊕

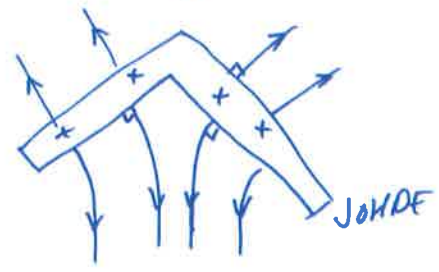
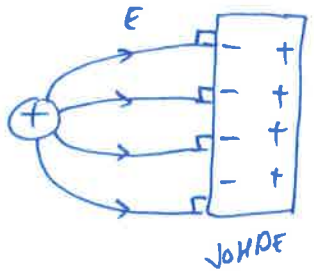


SIJOTA 10 kpl ⊖



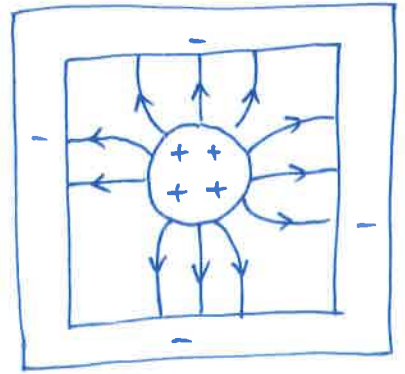
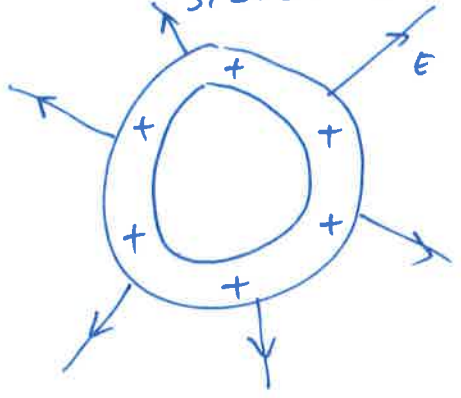
SÄHKÖKENTTÄ KOHTAA JOHTEN/LÄHTEEN JOHTEESTA

KOHTISUORASTI

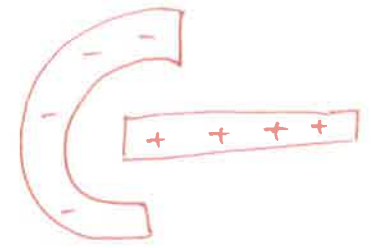
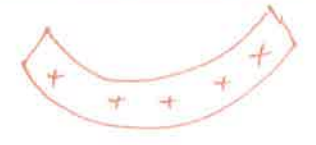
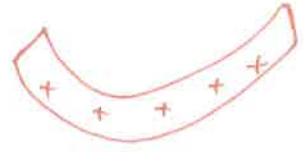
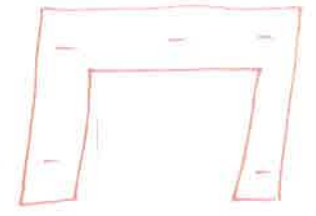
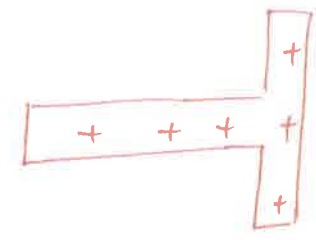


HUOM.

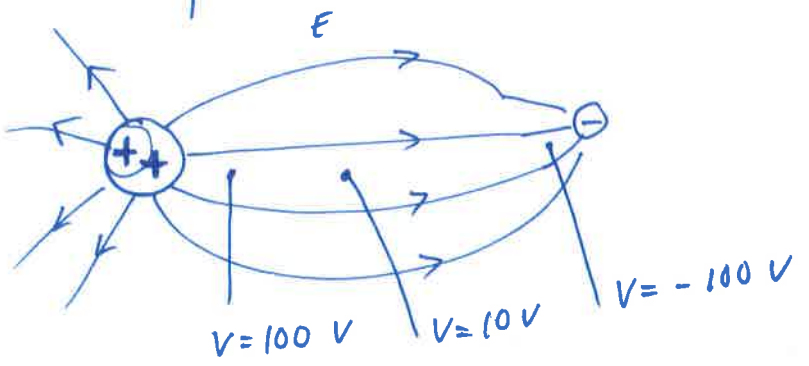
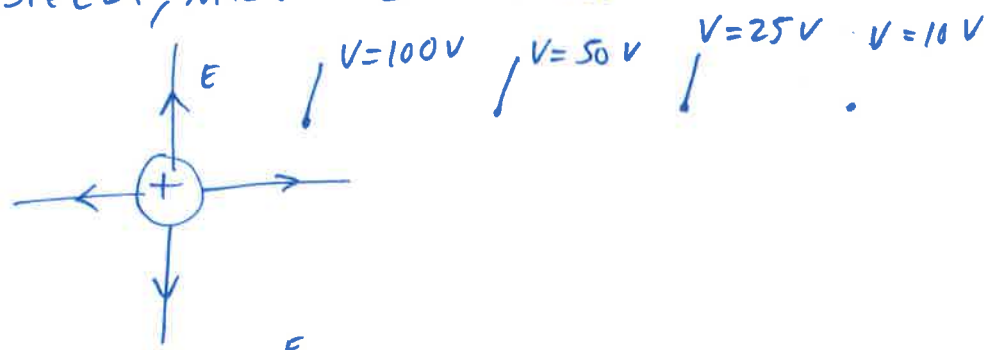
E EI MENE SISÄLLE, JOS SISÄLLÄ EI OLE ⊖ VARAUSTA



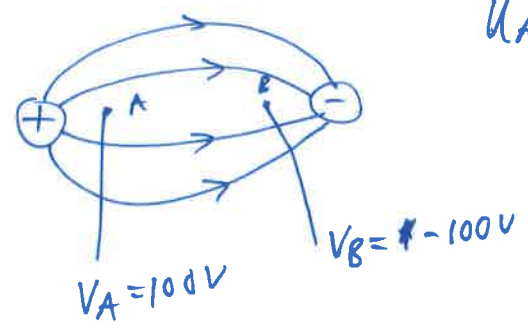
PIIRRI E



POTENTIAALI ON SUURIN  
 SIELLÄ, MISTÄ E LÄHTEE

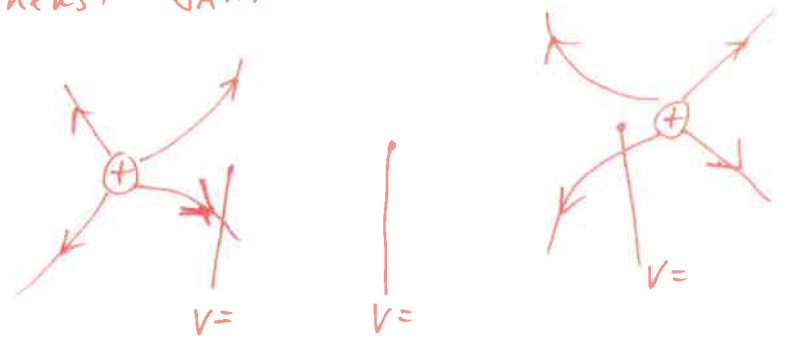


JÄNNITE ON POTENTIAALIERO

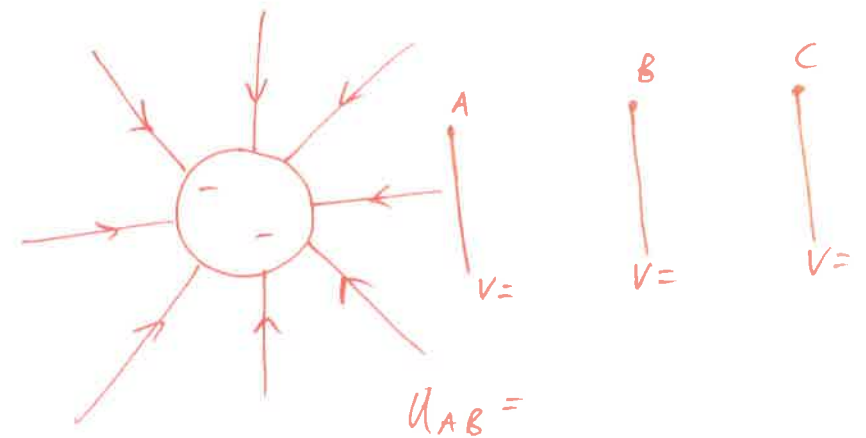


$$U_{AB} = 100V - (-100V) = 200V$$

KEKSI JÄNNITTEELLÄ ARVO



KIRJOITA POTENTIAALIT JA JÄNNITTEET



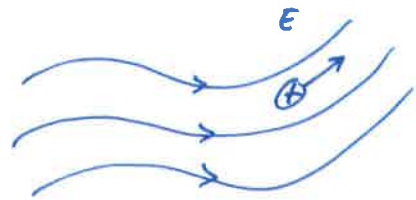
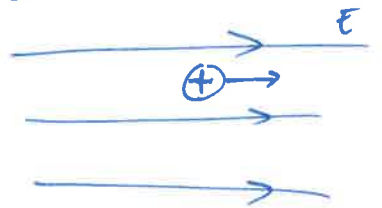
$$U_{AB} =$$

$$U_{AC} =$$

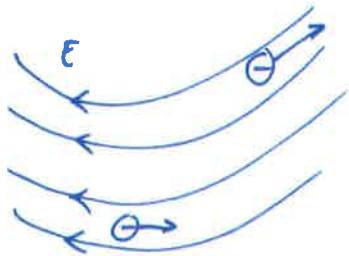
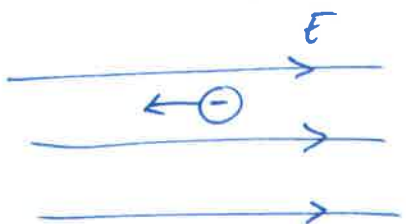
$$U_{BC} =$$

SÄHKIKENTTÄ KOHOISTA VOIMAT

$\oplus \rightsquigarrow E$ :N SUUNTA



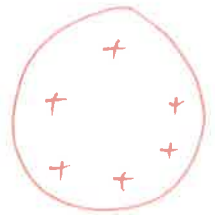
$\ominus \rightsquigarrow E$ :LLE VASTAKKANEN SUUNTA



PIIRRÄ E JA HIUKKASEEN NURMINEN VA VOIMA



$\ominus$



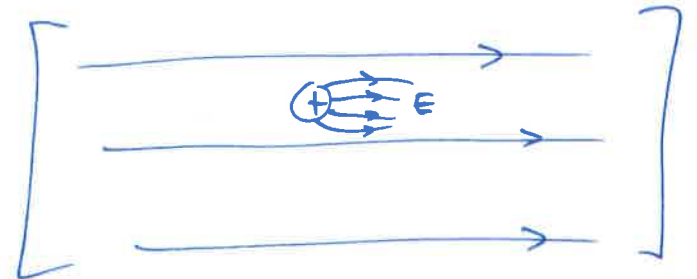
$\oplus$



$\oplus$

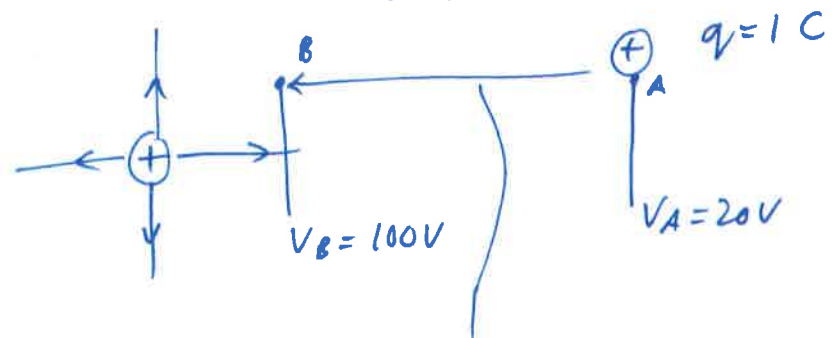


TÄSSÄ HIUKKASILLA ON PIENI VARTUS  
 $\rightsquigarrow$  EI TARVITSE PIIRTÄÄ  
 HIUKKASEN SÄHKIKENTTÄIN

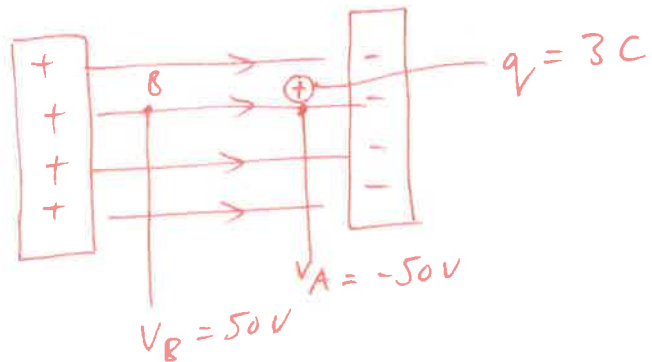


SIIRTO TYÖ = JÄNNITE · VARAUS

$$W = U_{AB} q$$



$$W = U_{AB} q$$
$$= 80V \cdot 1C = \underline{\underline{80J}}$$



$$W = U_{AB} q$$

=

