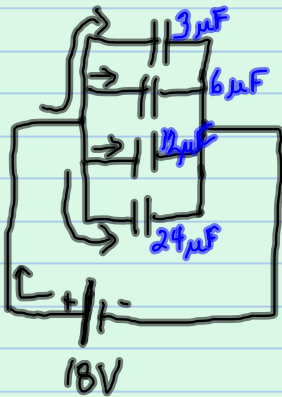


Ex. 16.5, p512



parallel

$$C_{eq} = C_1 + C_2 + C_3 + C_4$$

$$* V_{eq} = V_1 = V_2 = V_3 = V_4$$

$$Q_{eq} = Q_1 + Q_2 + Q_3 + Q_4$$

do 25, 26, $C = \epsilon \frac{Q}{d}$

29a + 30b

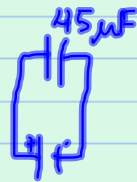
series series

$$29a) Q = 13 \mu C$$

$$30b) C = 1.78 \mu F$$

$q^+ \rightarrow -$

① find $C_{eq} = 3 + 6 + 12 + 24 = 45 \mu F$



$C_{eq} =$

② $V_3 = V_6 = V_{12} = V_{24} = 18V$

$$C = \frac{Q}{V}$$

be able to find

$C_{eq}, V + Q$ on each on P+S

③ $Q = ?$

$$Q_3 = CV = 3 \times 10^{-6} (18) = 54 \times 10^{-6} C$$

$$Q_6 = 6 \times 10^{-6} (18) = 108 \times 10^{-6} C$$

$$Q_{12} = 12 \times 10^{-6} (18) = 216 \times 10^{-6} C$$

$$Q_{24} = 24 \times 10^{-6} (18) = 432 \times 10^{-6} C$$

for Fri # 25, 26, 29, 30 finish for HW

give 1 prac. circuit for each