

- 6 Three capacitors, each of capacitance $48 \mu\text{F}$, are connected as shown in Fig. 6.1.

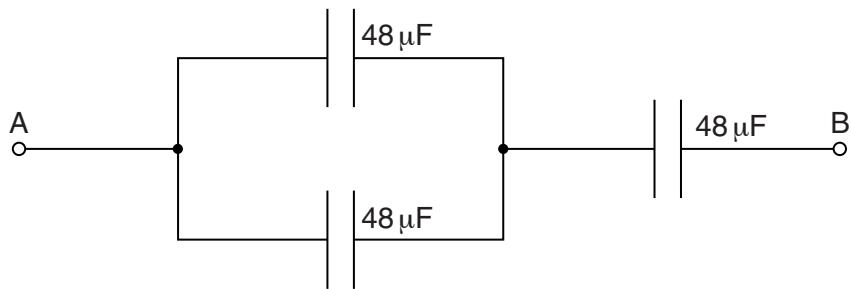


Fig. 6.1

- (a) Calculate the total capacitance between points A and B.

$$\text{capacitance} = \dots \mu\text{F} \quad [2]$$

- (b) The maximum safe potential difference that can be applied across any one capacitor is 6 V.

Determine the maximum safe potential difference that can be applied between points A and B.

$$\text{potential difference} = \dots \text{V} \quad [2]$$