

Chapter 6, Solution 29.

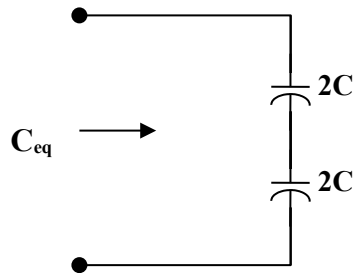
(a) C in series with $C = C/(2)$

$C/2$ in parallel with $C = 3C/2$

$$\frac{3C}{2} \text{ in series with } C = \frac{C \times \frac{3C}{2}}{5 \frac{C}{2}} = \frac{3C}{5}$$

$$3 \frac{C}{5} \text{ in parallel with } C = C + 3 \frac{C}{5} = \mathbf{1.6 C}$$

(b)



$$\frac{1}{C_{eq}} = \frac{1}{2C} + \frac{1}{2C} = \frac{1}{C}$$

$$C_{eq} = \mathbf{1 C}$$