## Chapter 6, Solution 17.

- 4F in series with  $12F = 4 \times 12/(16) = 3F$ 3F in parallel with 6F and 3F = 3+6+3 = 12F4F in series with 12F = 3F
- i.e.  $C_{eq} = 3F$ (b)  $C_{eq} = 5 + [6x(4+2)/(6+4+2)] = 5 + (36/12) = 5 + 3 = 8F$ (c) 3F in series with 6F =  $(3 \times 6)/9 = 2F$
- $\frac{1}{C_{eq}} = \frac{1}{2} + \frac{1}{6} + \frac{1}{3} = 1$   $C_{eq} = 1F$

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