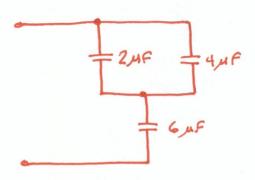
## EE 2240

## Problem #11

Given three capacitors with values 2  $\mu$ F, 4  $\mu$ F and 6  $\mu$ F, can the capacitors be interconnected so that the combination is an equivalent 3  $\mu$ F?

## Yes, as follows:



## Verification:

$$C_{ef} = \frac{1}{2\mu F + 4\mu F} + \frac{1}{6\mu F} = \frac{6\mu F}{1+1} = 3\mu F$$