

Rotating Magnetic Field

Dr. Hangtian Lei

Assistant Professor

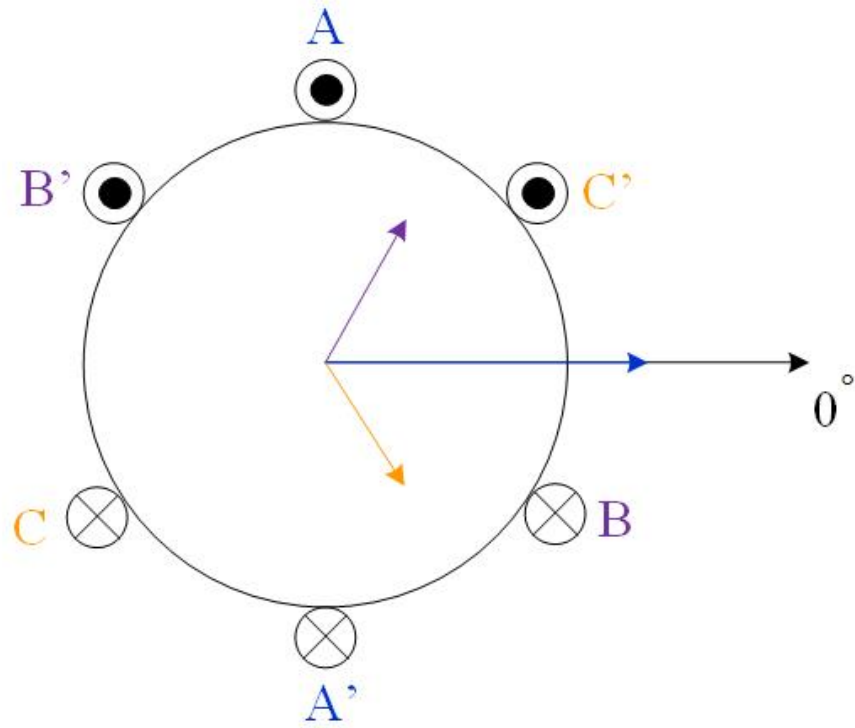
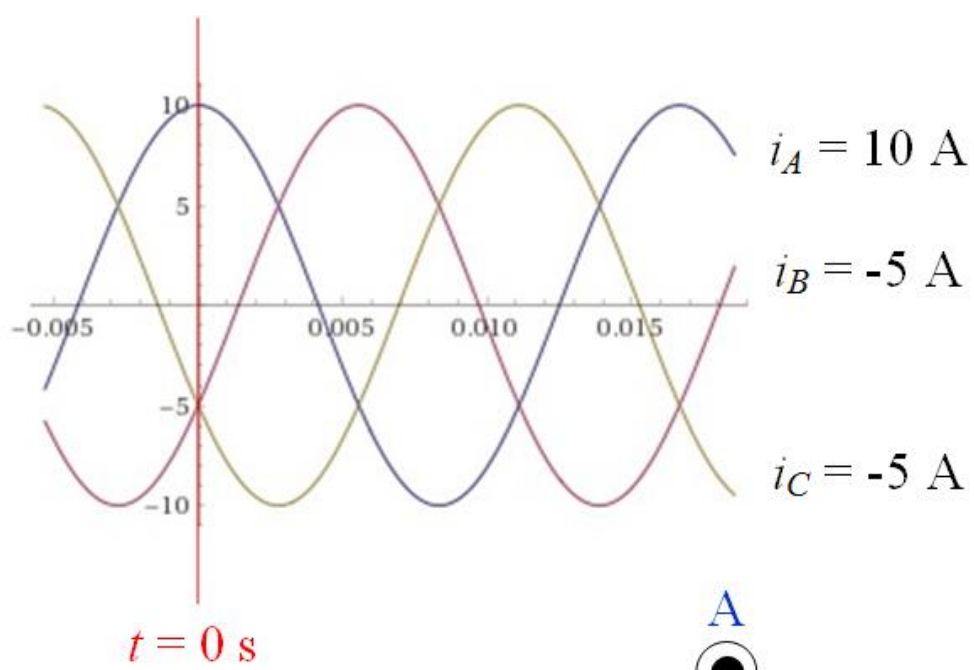
Department of Electrical and Computer Engineering

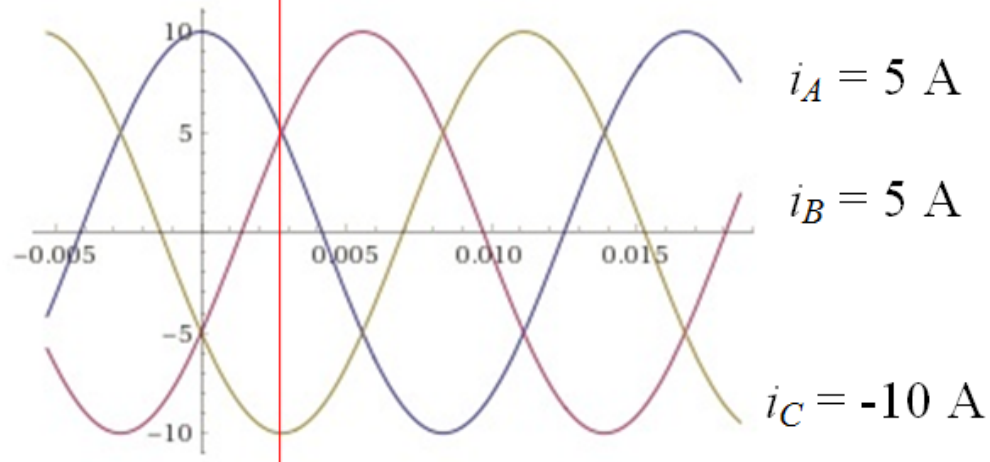
University of Idaho

$$i_A(t) = 10\cos(120\pi t) \text{ A}$$

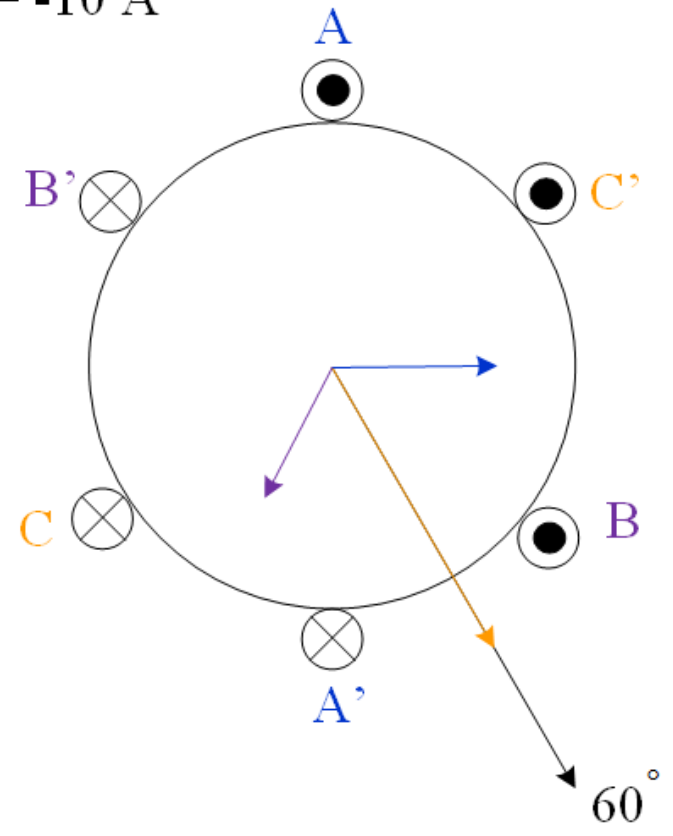
$$i_B(t) = 10\cos(120\pi t - 2/3\pi) \text{ A}$$

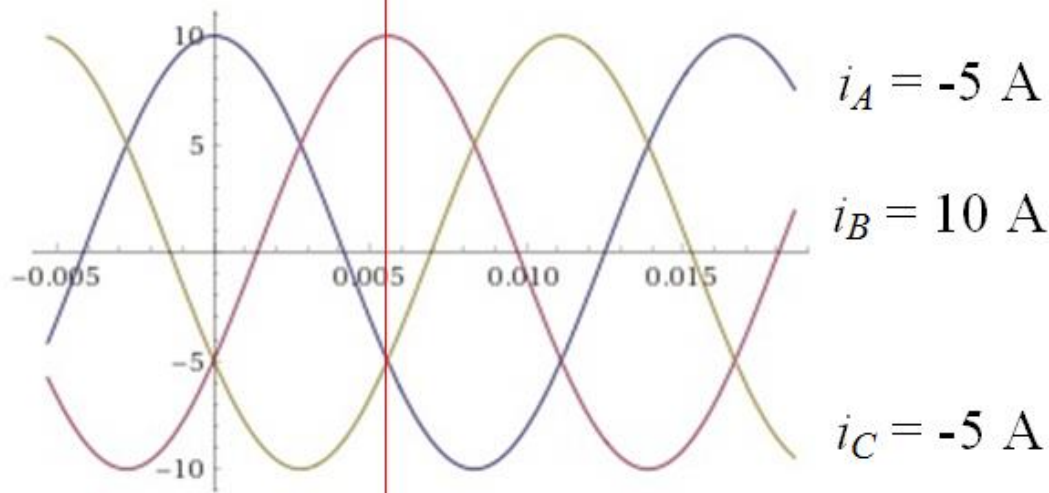
$$i_C(t) = 10\cos(120\pi t + 2/3\pi) \text{ A}$$



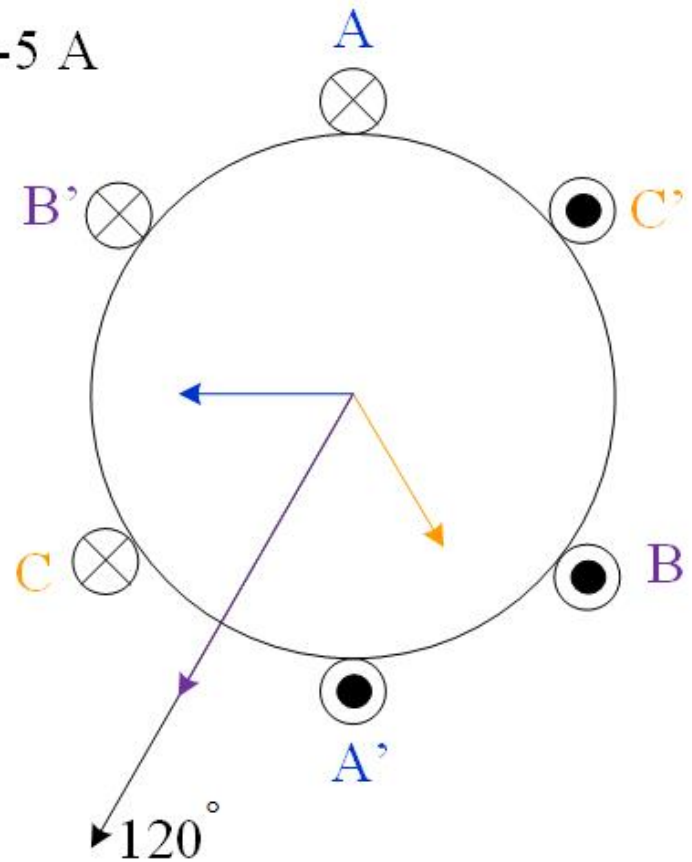


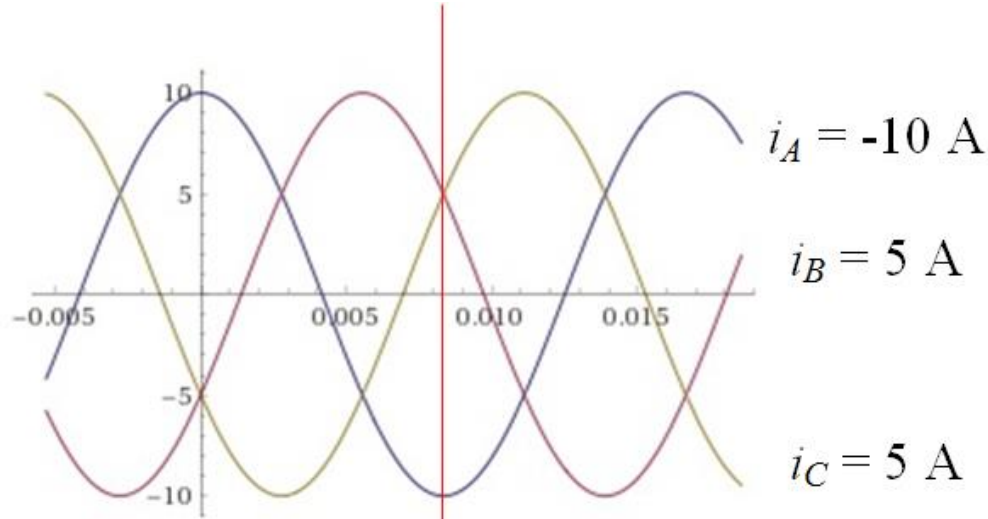
$t = 0.0028 \text{ s}$
 (1/6 cycle)



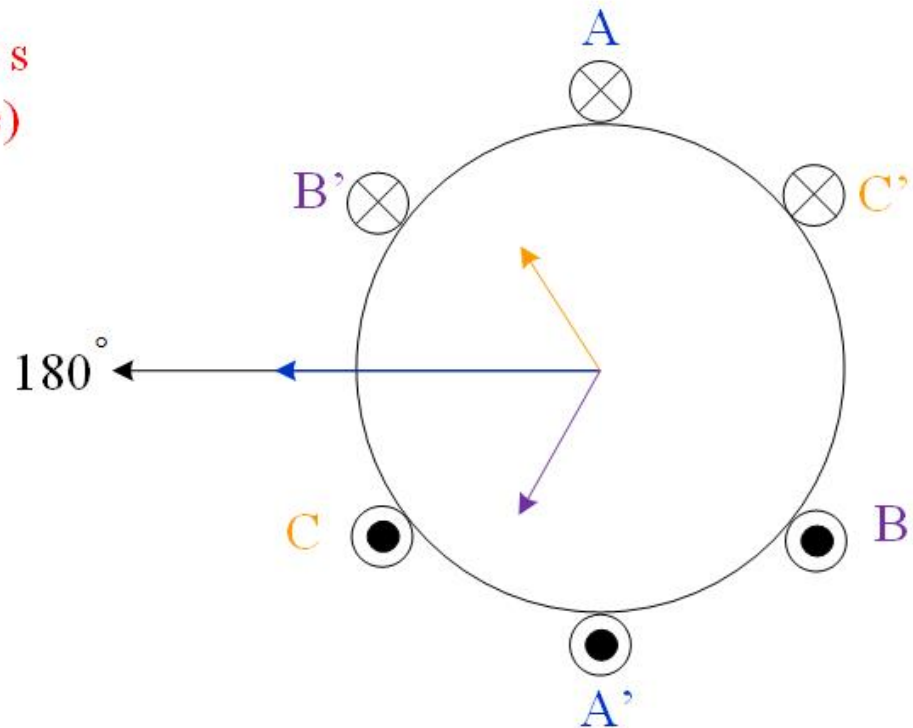


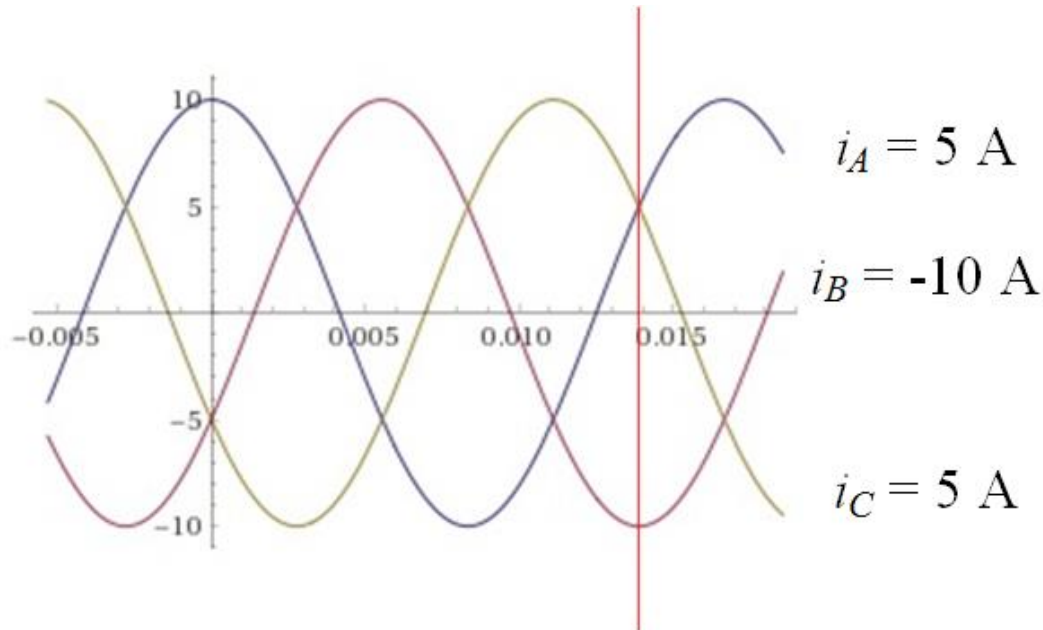
$t = 0.0056 \text{ s}$
 (1/3 cycle)



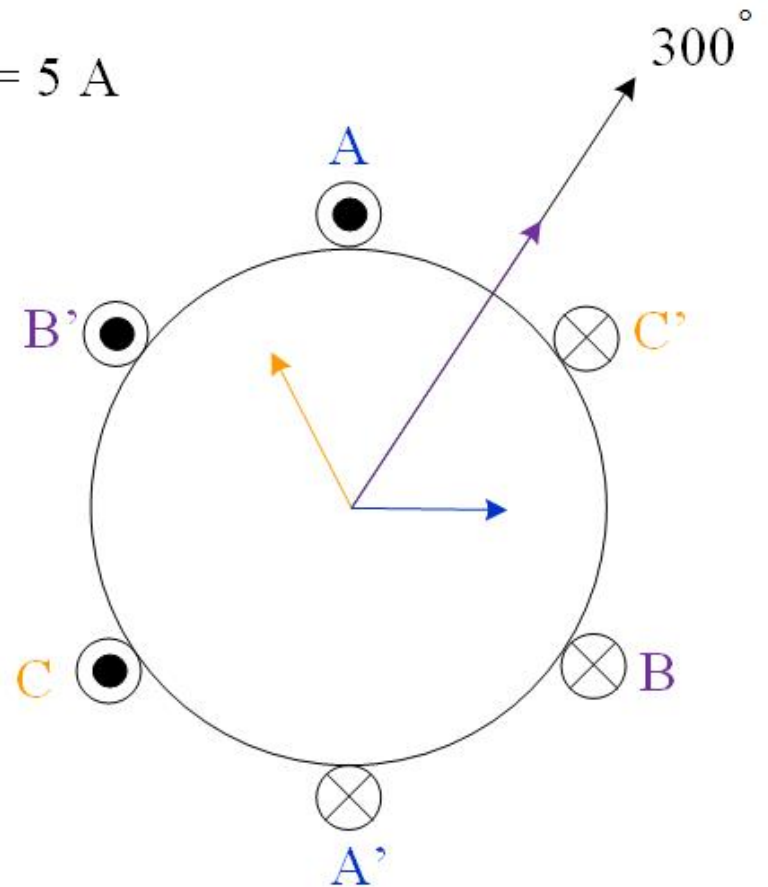


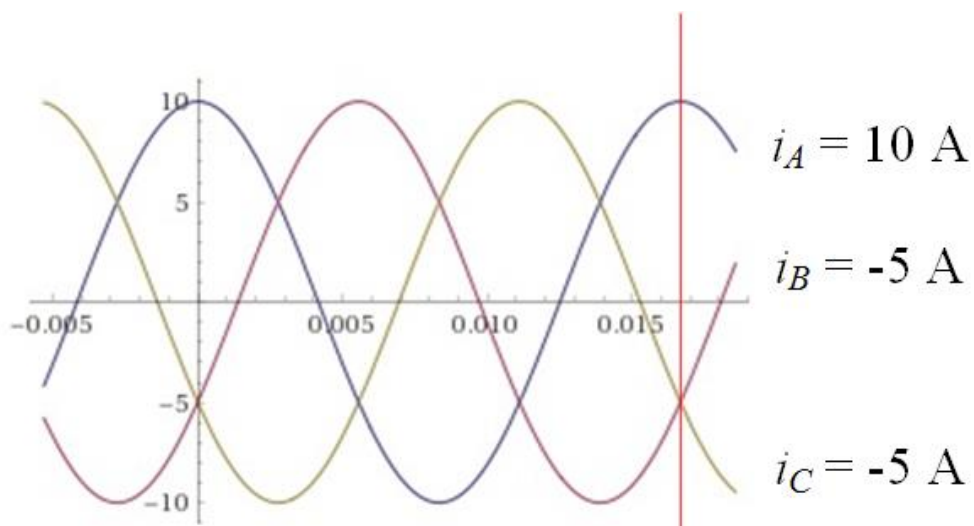
$t = 0.0083 \text{ s}$
 (1/2 cycle)





$t = 0.0139 \text{ s}$
 (5/6 cycle)





$t = 0.0167 \text{ s}$
 (1 full cycle)

