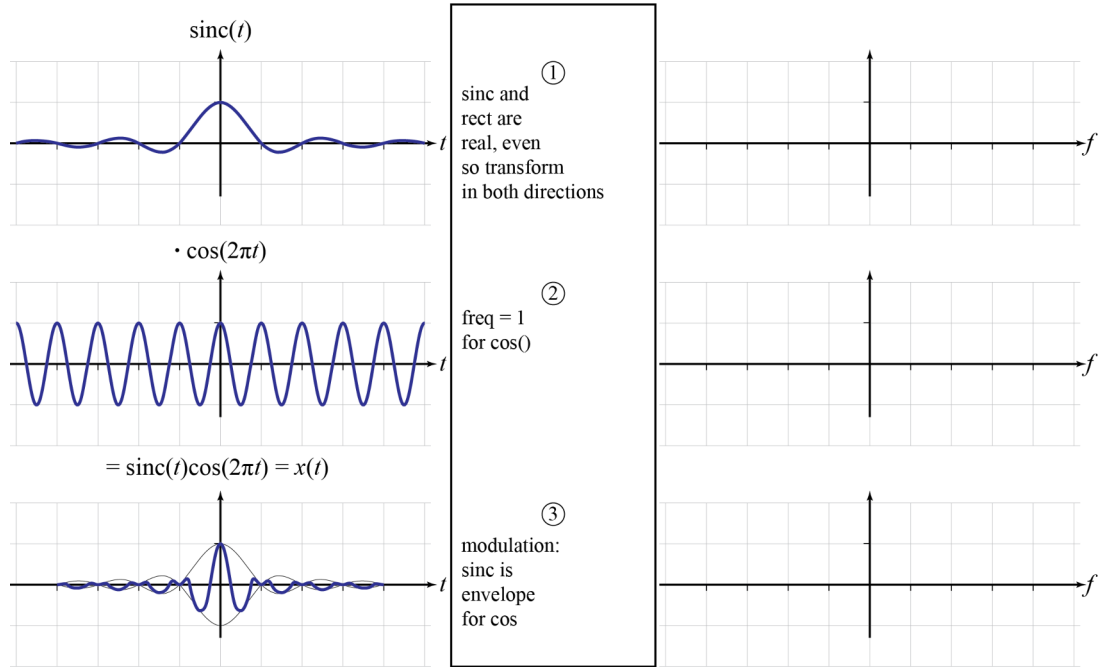
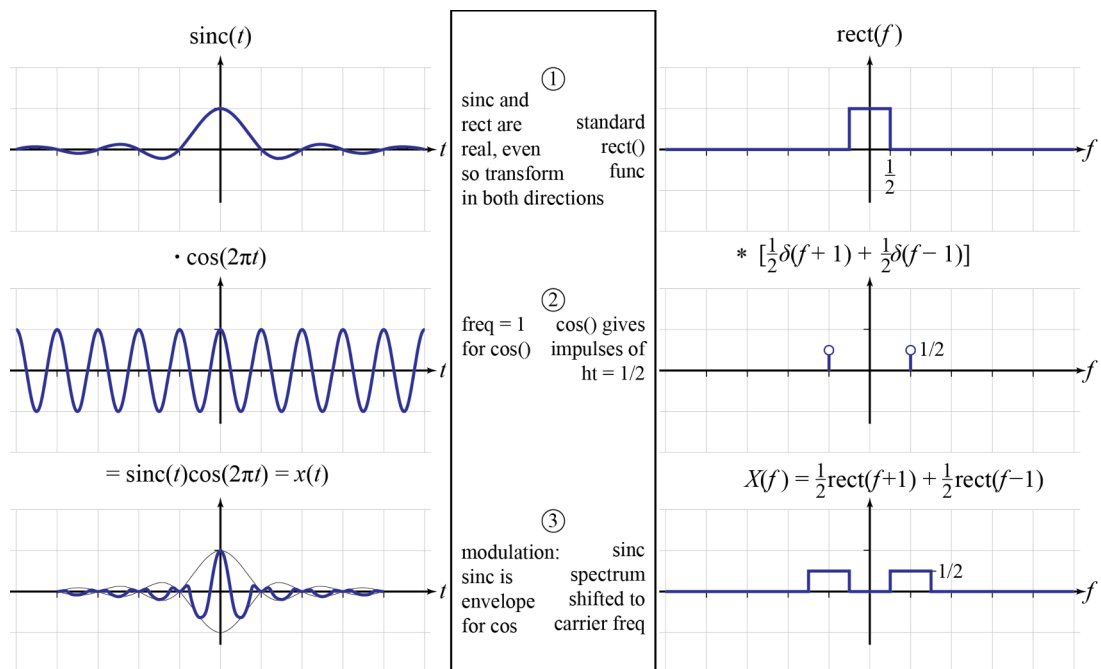


Ex: Complete the right side of the Rosetta Stone diagram below to find the Fourier transform of $x(t) = \text{sinc}(t) \cos(2\pi t)$.



SOLN: Use Fourier transform pairs and identities to complete the first two lines. For the third line, multiplication in time is convolution in frequency.



REF: Ronald Bracewell, *The Fourier Transform and its Applications*, 2nd Ed., New York, NY: McGraw-Hill, 1978. ISBN 0-07-007013-X