Answer on Question #51962, Physics, Other

Task: In the wave equation y=asin(ω t+kx), the quantity (ω t+kx) represents. the symbols have the usual meaning

Answer:

- $y(x;t)=asin(\omega t+kx)=asin(kx+2\pi ft)$
- a = amplitude
- $k = 2\pi/\lambda =$ wave number
- λ = wavelength
- f = frequency
- T = 1/f = period
- $\omega = 2\pi f = 2\pi/T$ angular frequency
- (ωt+kx) ="phase"

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