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Catherine Sheldrick Ross ,Kirsti Nilsen ,Marie L. Radford

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 ω represents the frequency of a sine wave when we write it this way sin ω 1 the sin completes one cycle in 2π seconds if ω 2π the sin completes one cycle sooner every 1 second for f 1 if ω 2π f the sin completes one cycle even faster every 1 f seconds or equivalently sin completes f cycles in 1 second

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