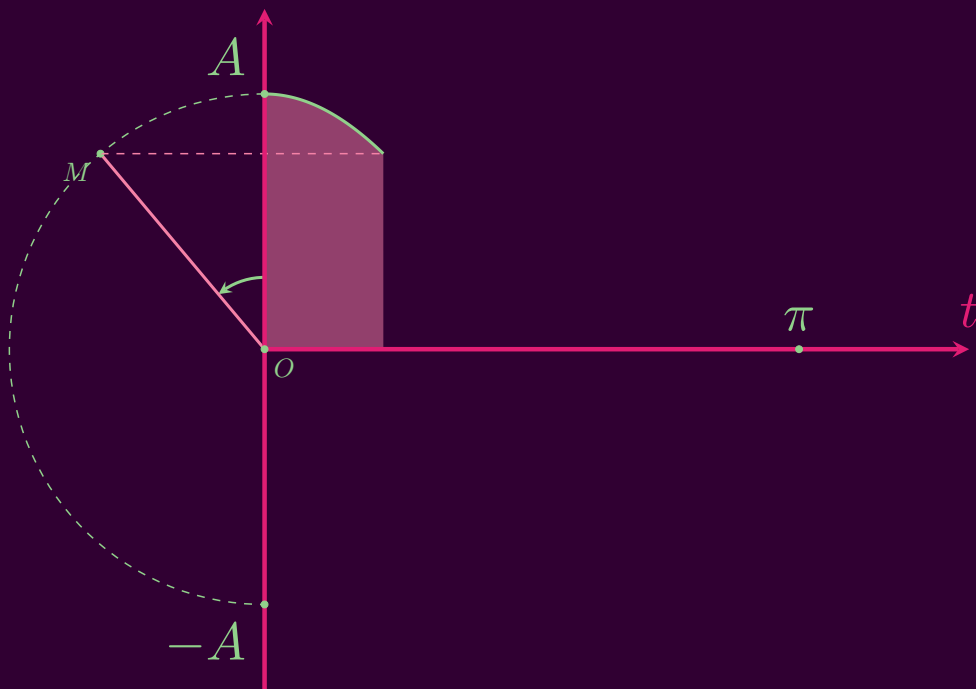Associating a rotating vector to $A\cos(\omega t)$