Unit | Lesson & Notes: Simulsoiday Functions
· A sinuisoidal function is some function of the form $f(t) = A \cos(wt - \Phi),$

Als amplitable;

W is any ylar frequency

\$\psi 5 Phase 199

\$P/W = T is the time lags

\$\psi/2\pi = V is the frequency

\$V^{-1}=\text{Pis the period}

· Sinuisoidal function satisfy

q (os (w t) + b cos(w t) = A cos (w t)

Regular/Contision form

amplitude phase form

Unit l'Lesson & Probloms

$$f(t) = 2 \cos(\frac{\pi}{4} + \frac{\pi}{4})$$

2i Cannot be As (, or), since sin and cost have stirle long

By solution, new Als agray to Va+ 82 = 2, 9 = arctan(2)=3,

thus 2