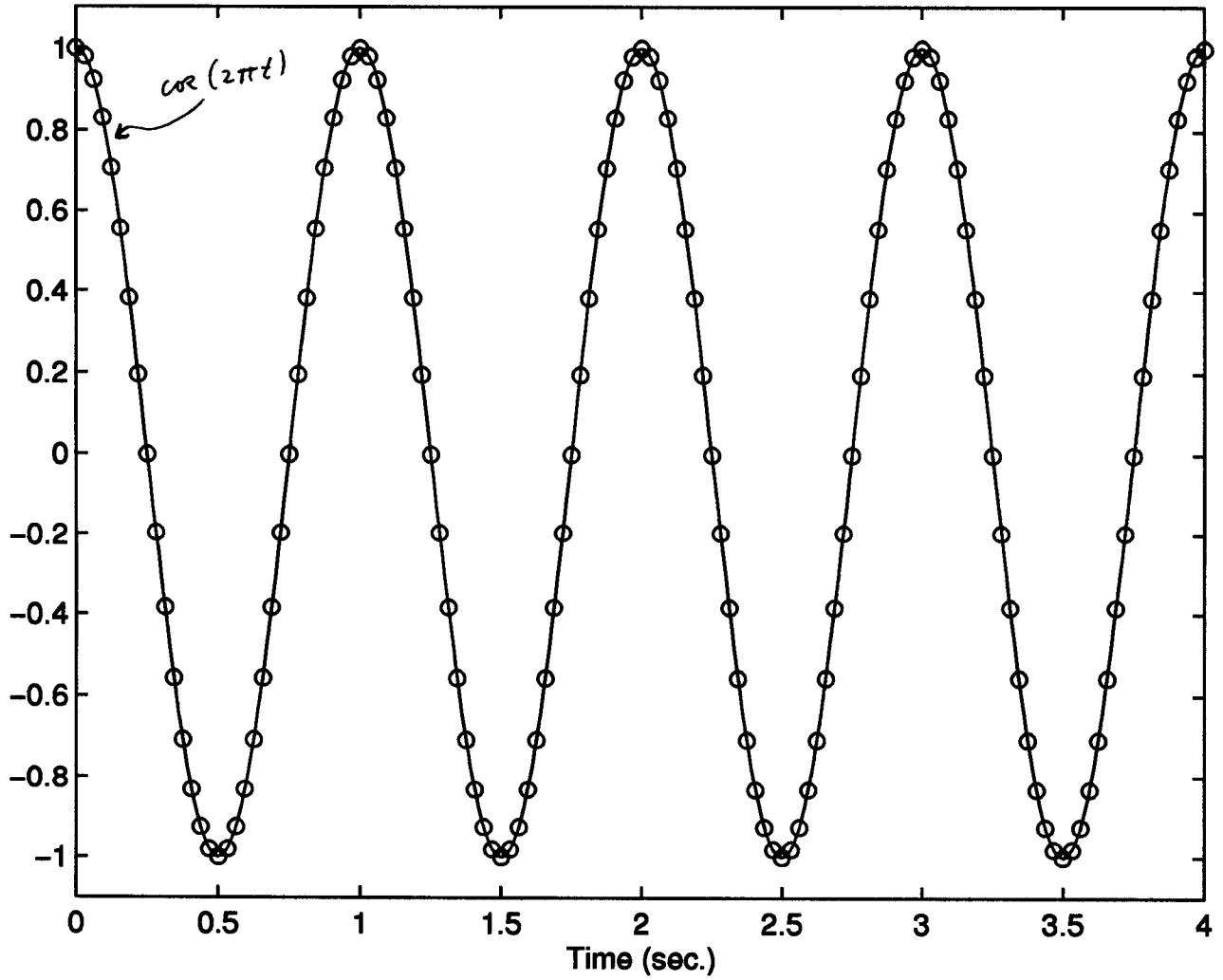
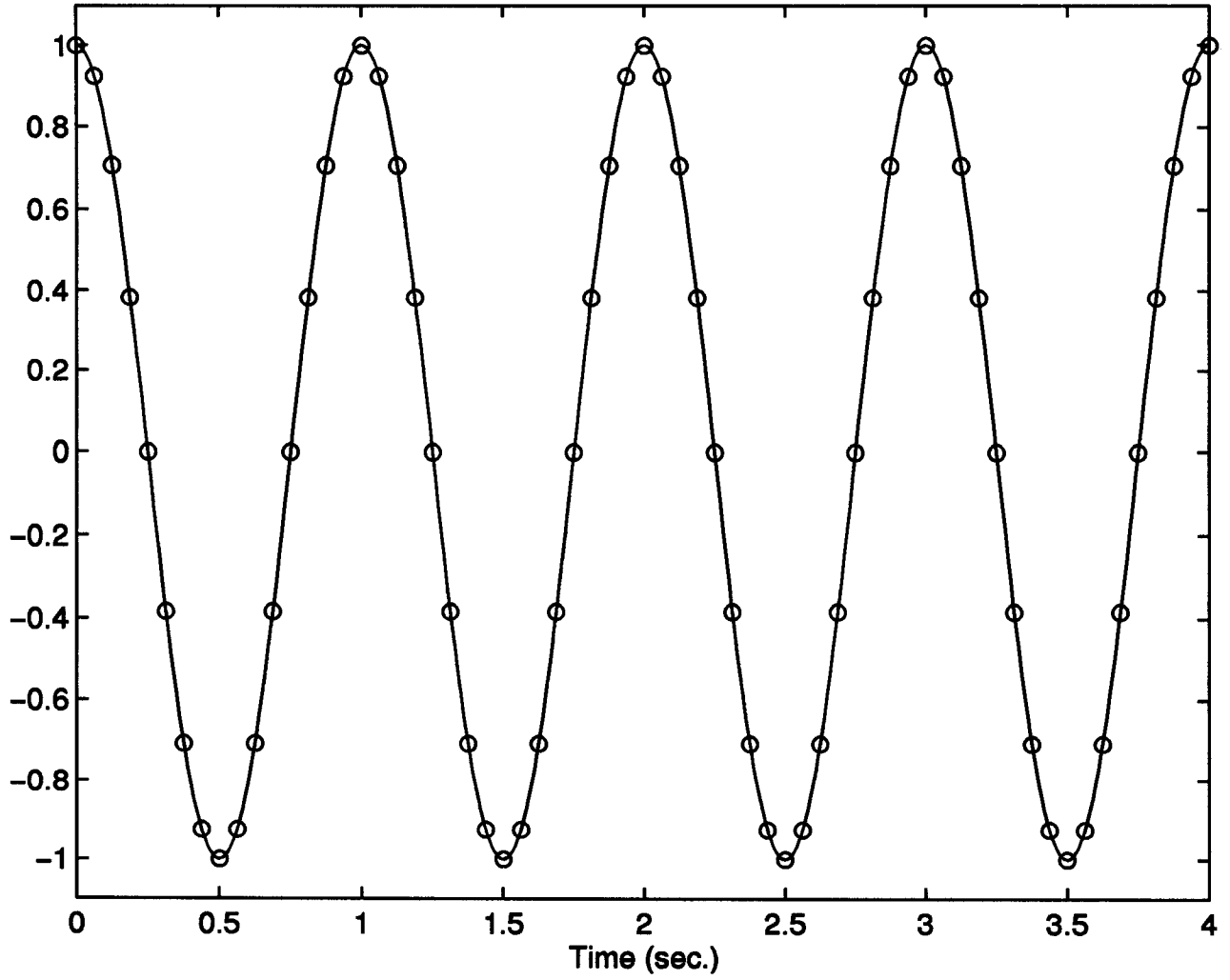


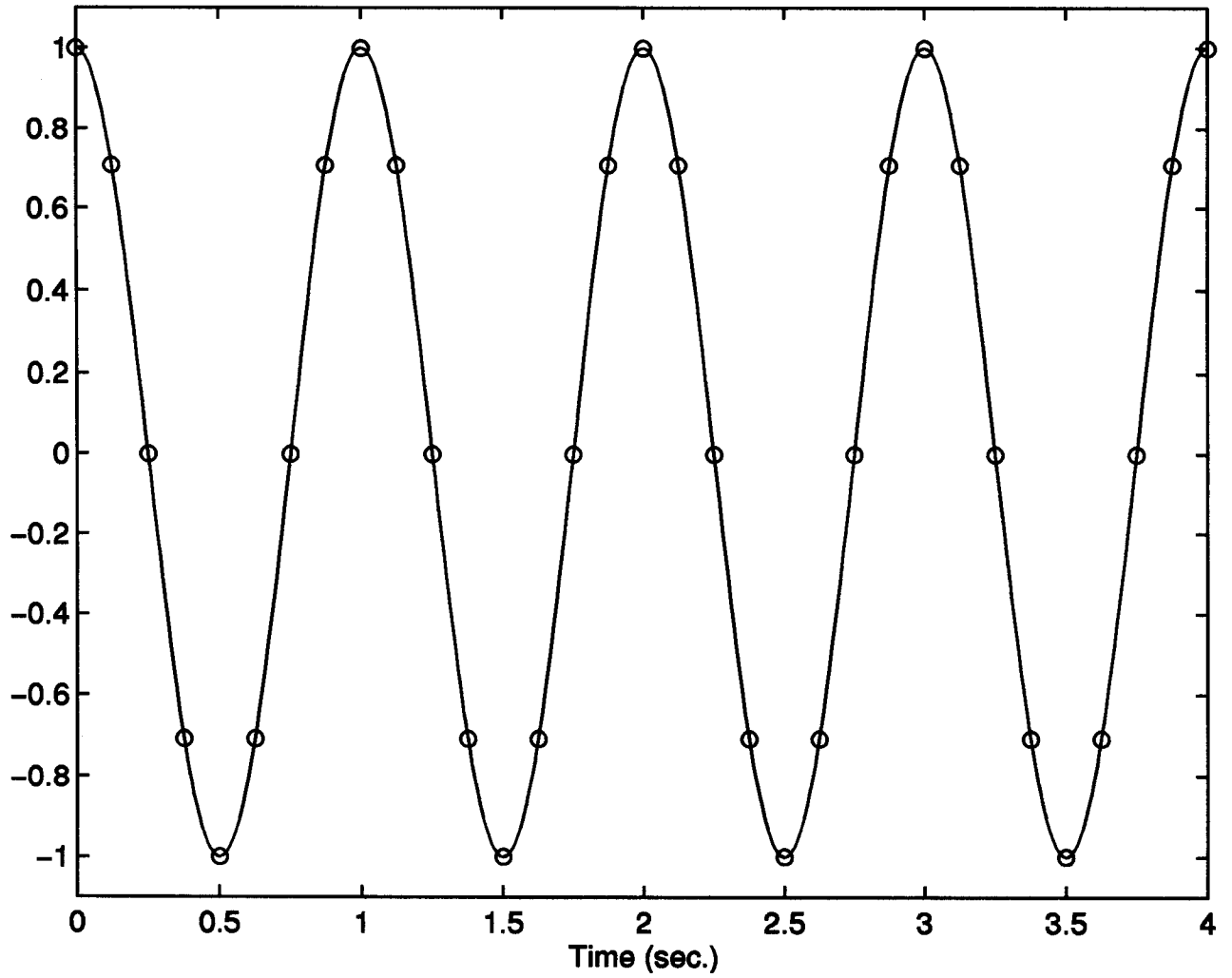
Sample spacing 1/32 sec.



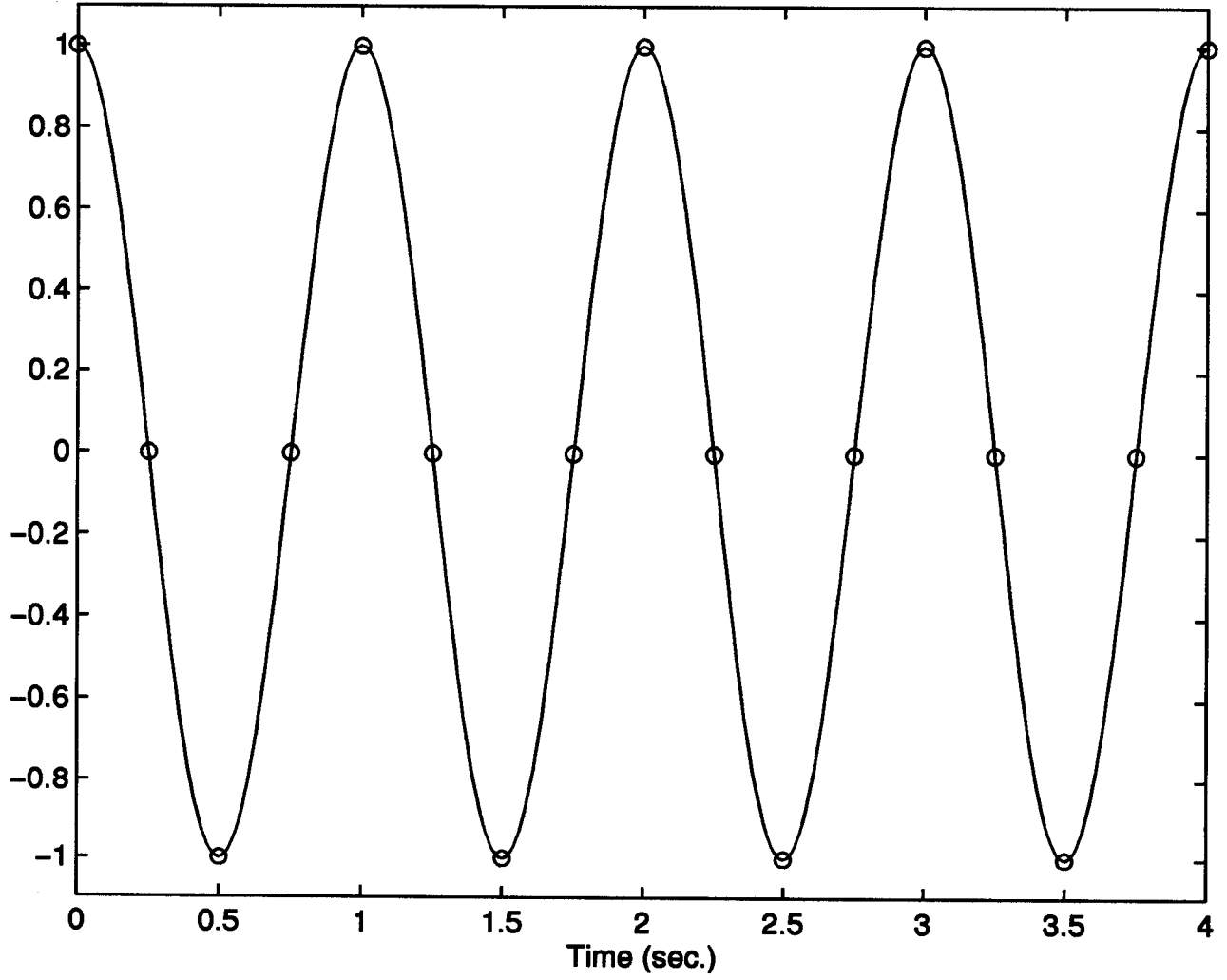
Sample spacing 1/16 sec.



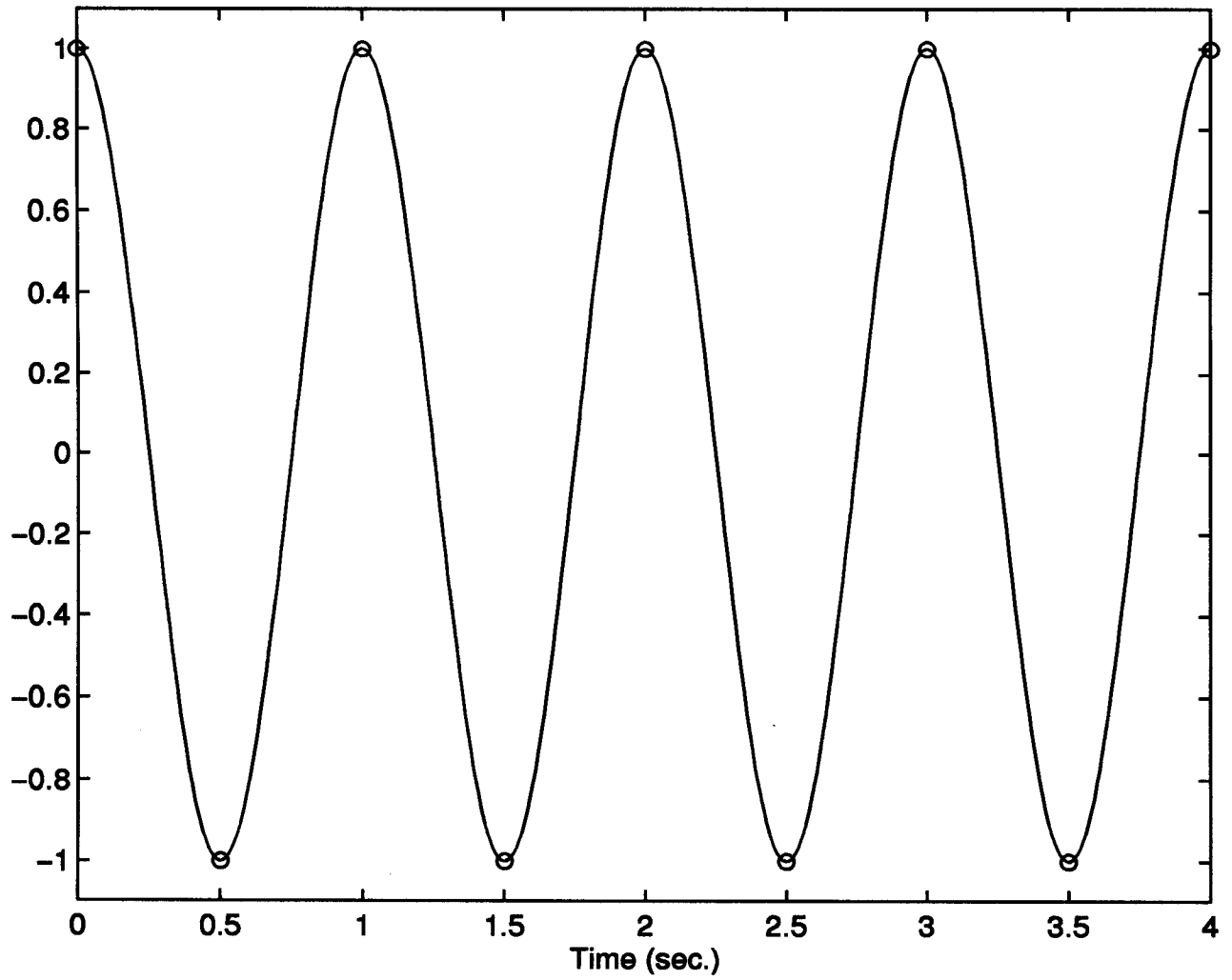
Sample spacing 1/8 sec.



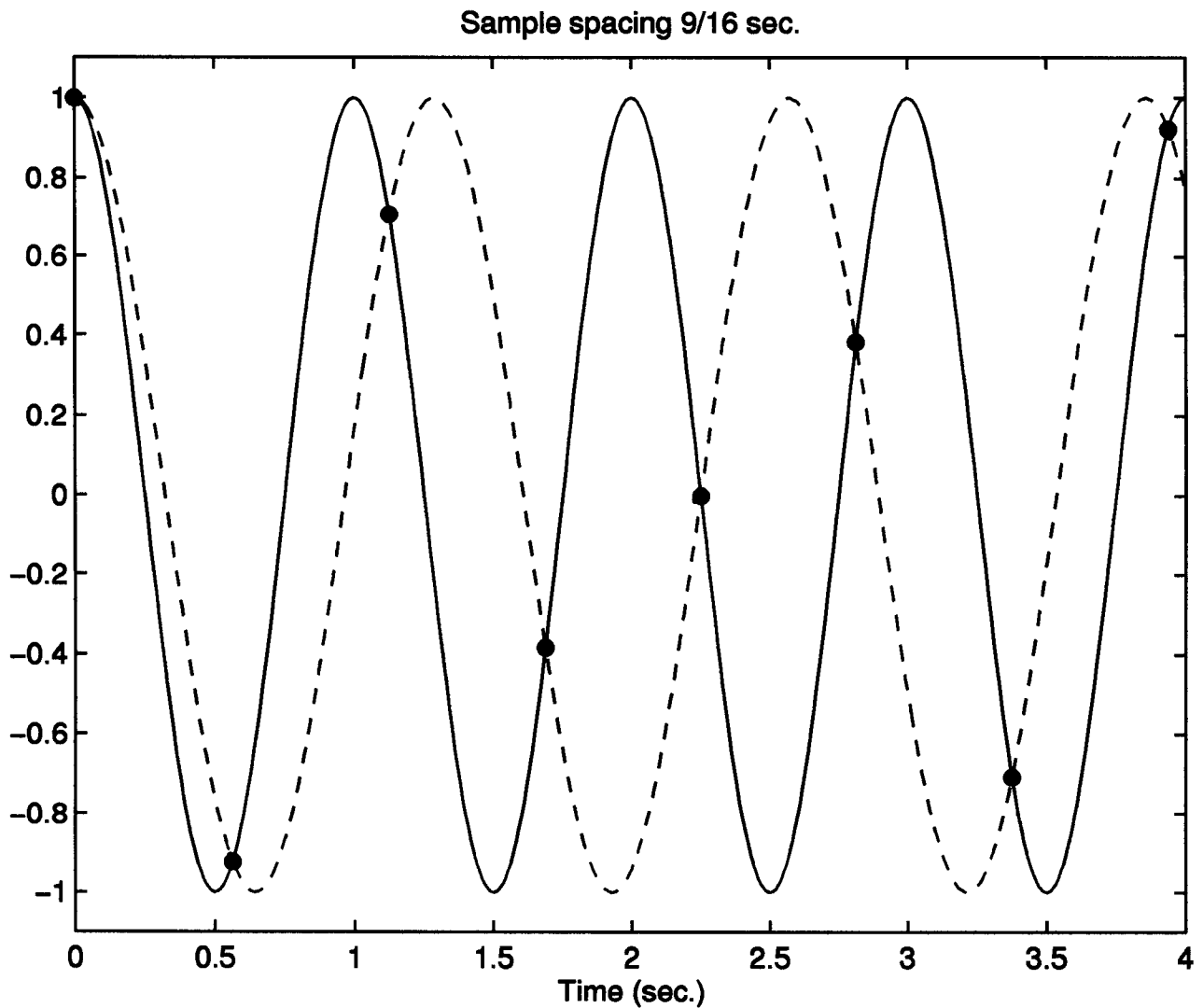
Sample spacing 1/4 sec.



Sample spacing 1/2 sec.



——— $\cos(2\pi t)$
 - - - - $\cos(2\pi \cdot \frac{7}{9} t)$



"Aliasing" : Higher frequency (1 Hz) looks
 like lower frequency ($\frac{7}{9}$ Hz) due to
 under sampling.

Impossible to distinguish these cosines based on
 samples.