

A plot of a periodic function, labeled  $A \sin(2\omega t)$ , showing two full cycles of a sine wave over a time interval from 0.00 to 2.00 seconds. The x-axis is labeled "time (s)" and has major ticks every 0.25 units. The y-axis is unlabeled. The function has two peaks and two troughs within the shown interval.

A plot of a sine wave representing a periodic signal. The x-axis is labeled "time (s)" and ranges from 0.00 to 2.00. The y-axis is unlabeled. The sine wave is labeled with the equation  $A \sin(2\omega t)$  and the summation formula  $\sum_{i=0}^{\infty} x_i$ .

A plot of a sine wave representing a periodic signal. The x-axis is labeled "time (s)" and ranges from 0.00 to 2.00. The y-axis is unlabeled. The sine wave is labeled with the equation  $A \sin(2\omega t)$  and the summation formula  $\sum_{i=0}^{\infty} x_i$ .