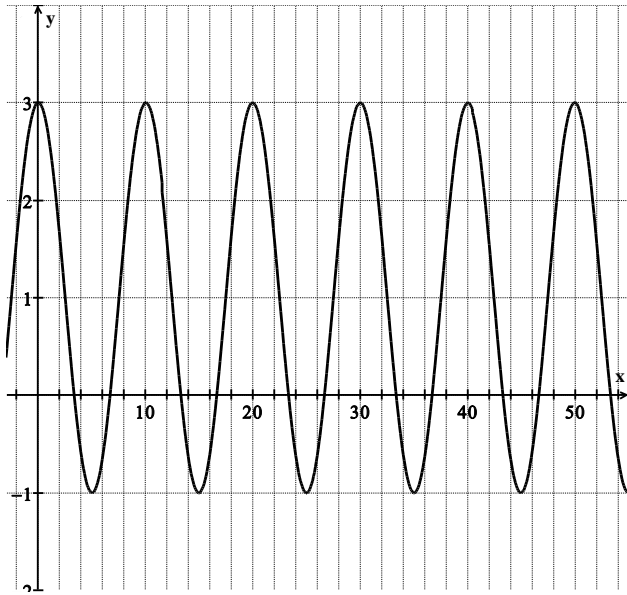# Determining Sinusoidal Equations from a Graph or Table

Example 1 Determine the equation of the following graph as a sine function and as a cosine function.

Example 2 A sinusoidal function has an amplitude of 2 units, a period of 180° and a maximum at (0, 3). Represent the function with an equation in 2 different ways.

Example 3 Determine the function that models the data in the table that does not involve a horizontal translation.

x	0°	45°	90°	135°	180°	225°	270°
y	9	7	5	7	9	7	5