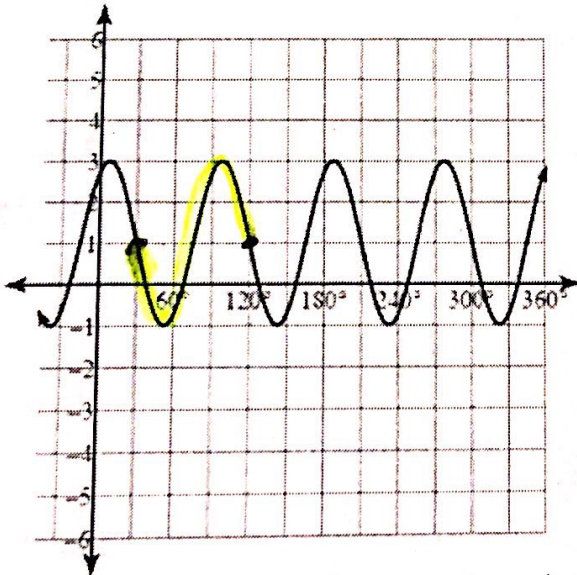


## Warm-up: Writing Equations I

Write the equation of the graph using **Sine**:



← starts at midline

amp: 2

reflect: yes

Phase shift:  $30^\circ$

Vert. Shift: 1

D:  $[30^\circ, 120^\circ]$

Period:  $120^\circ - 30^\circ = 90^\circ$

$$b = \frac{360^\circ}{90^\circ} = 4$$

$$y = a \sin b(\theta - c) + d$$

$$y = -2 \sin 4(\theta - 30^\circ) + 1$$