

$$y = A \sin b(x-c) + h$$

Amplitude $|A|$
 b controls the period
 $\frac{2\pi}{b}$
 sin/cos/sec/csc
 $\frac{\pi}{b}$
 tan/cot $\frac{\pi}{b}$
 Phase shift \leftarrow
 vertical shift/displacement \updownarrow

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$$y = 2 \sin\left(\frac{1}{4}\right)\left(x + \frac{\pi}{4}\right) - 2$$

amp: 2
 period: $\frac{2\pi}{4} = \frac{\pi}{2}$
 phase shift: $-\frac{\pi}{4}$
 vs: -2

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