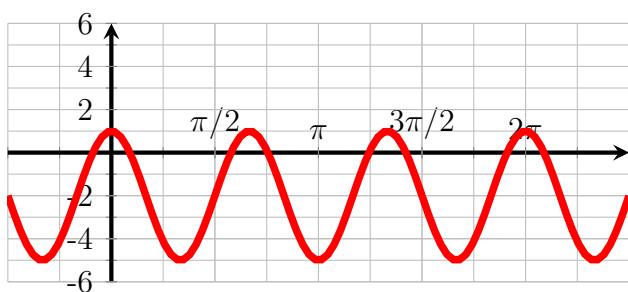


Parts of Periodic Graphs

1. For the periodic graphs below, identify the midline, amplitude, period, and frequency.
 Assuming there is no phase shift, identify whether the function is $\pm \sin$ or $\pm \cos$.



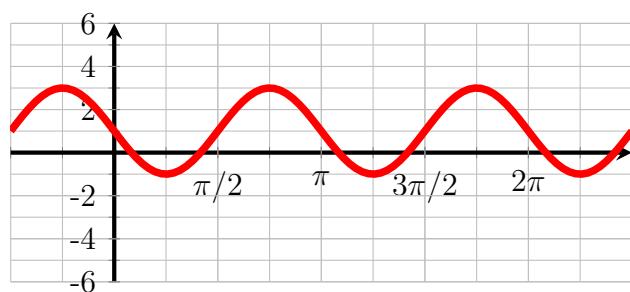
Midline =

Period =

Trig Function =

Amplitude =

Frequency =



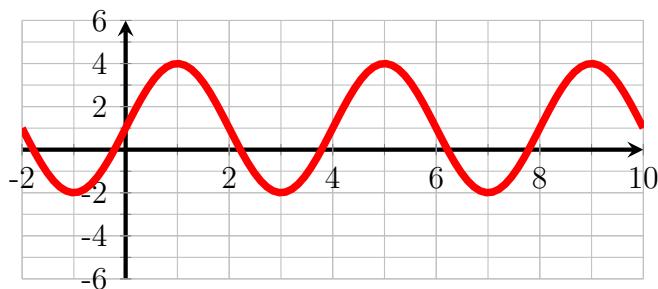
Midline =

Period =

Trig Function =

Amplitude =

Frequency =



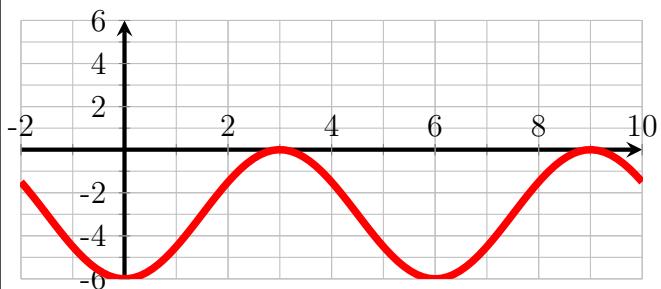
Midline =

Period =

Trig Function =

Amplitude =

Frequency =



Midline =

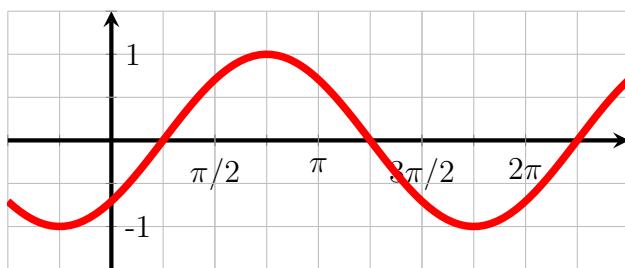
Period =

Trig Function =

Amplitude =

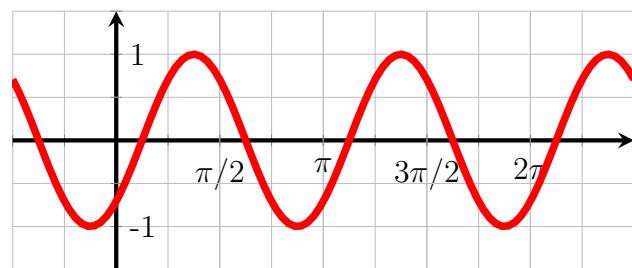
Frequency =

2. For the periodic graphs below, identify the phase shift and frequency assuming the function is \sin



Phase shift =

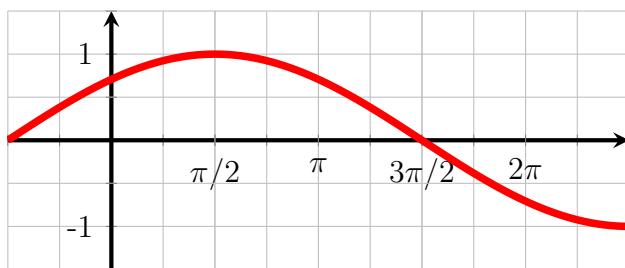
Frequency =



Phase shift =

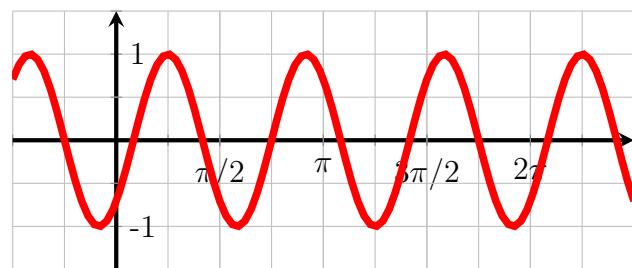
Frequency =

3. For the periodic graphs below, identify the phase shift and frequency assuming the function is \cos



Phase shift =

Frequency =



Phase shift =

Frequency =

4. For the formulas below, identify the midline, amplitude, period, frequency, and phase shift.

(a) $3 - 2 \sin\left(5(x - \frac{\pi}{6})\right)$

Midline =

Amplitude =

Period =

Frequency =

Shift =

(b) $-2 + 4 \cos\left(3(x - \frac{\pi}{4})\right)$

Midline =

Amplitude =

Period =

Frequency =

Shift =

(c) $-1 + 4 \sin\left(2x - \frac{\pi}{3}\right)$

Midline =

Amplitude =

Period =

Frequency =

Shift =

(d) $4 - 8 \cos(3x + \pi)$

Midline =

Amplitude =

Period =

Frequency =

Shift =