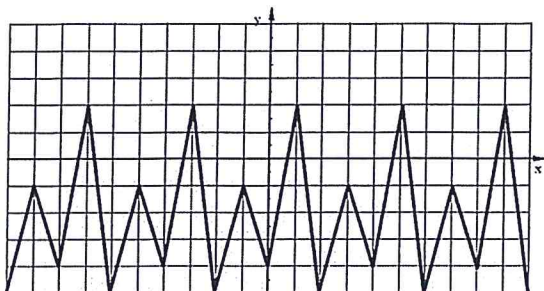


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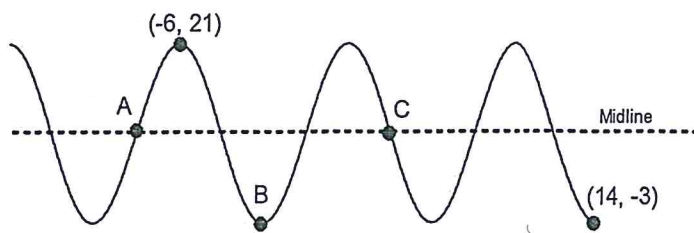
- Find the period, amplitude, and eq of the midline.
- Find the coordinates of points A, B, and C



Amplitude =

Period =

EQ of Midline:



Pt A:

Pt. B:

Pt. C:

- Convert each to radians. Leave answer in terms of π and reduced form.

a) 420°

b) 96°

- Convert each to degrees. Round to the nearest hundredth as necessary.

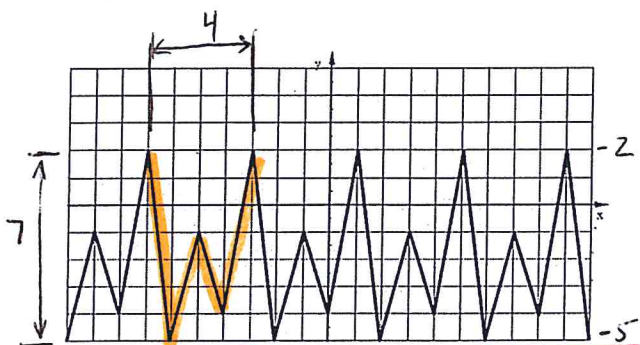
a) $\frac{7\pi}{4}$

b) 9

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ANSWERS

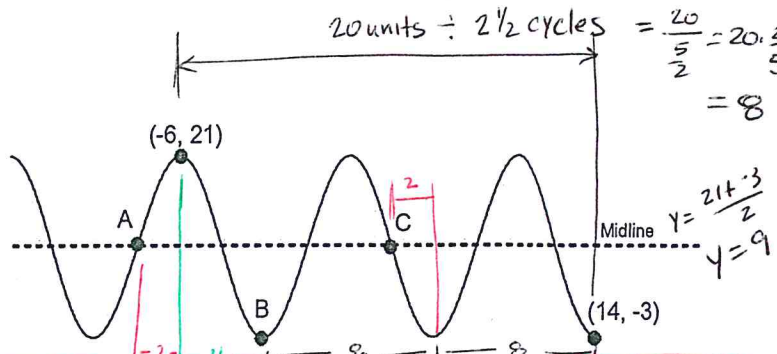
- Find the period, amplitude, and eq of the midline.
- Find the coordinates of points A, B, and C



Amplitude = $\frac{7}{2}$

Period = 4

EQ of Midline: $\frac{2 + (-5)}{2} = -\frac{3}{2}$ $y = -1.5$



Pt A: $(-8, 9)$

Pt. B: $(-2, -3)$

Pt. C: $(4, 9)$

period = 8
half-period = 4
 $\frac{1}{4}$ period = 2

- Convert each to radians. Leave answer in terms of π and reduced form.

a) $420^\circ \cdot \frac{\pi}{180^\circ} = \frac{7\pi}{3}$

b) $96^\circ \cdot \frac{\pi}{180^\circ} = \frac{8\pi}{15}$

- Convert each to degrees. Round to the nearest hundredth as necessary.

a) $\frac{7\pi}{4} \cdot \frac{180^\circ}{\pi} = 315^\circ$

b) $9 \cdot \frac{180^\circ}{\pi} = 515.66^\circ$