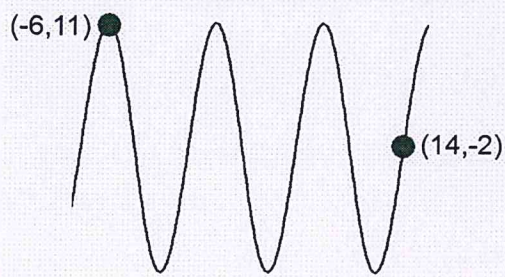


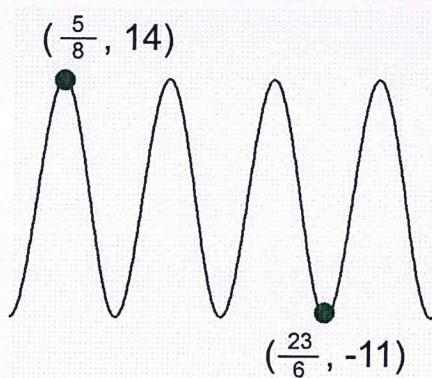
Bellwork Alg 2 Monday, April 15, 2019

For each function find the period, amplitude, and equation of the midline. Give period as a fraction in reduced form. Give exact amplitude and eq of midline.

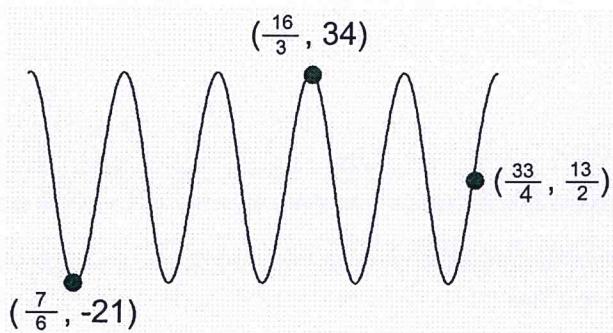
1.



2.

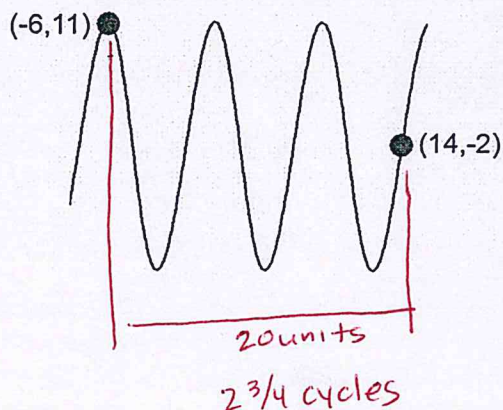


3.



For each function find the period, amplitude, and equation of the midline. Give period as a fraction in reduced form. Give exact amplitude and eq of midline.

1.



Amplitude: $11 - (-2) = 13$

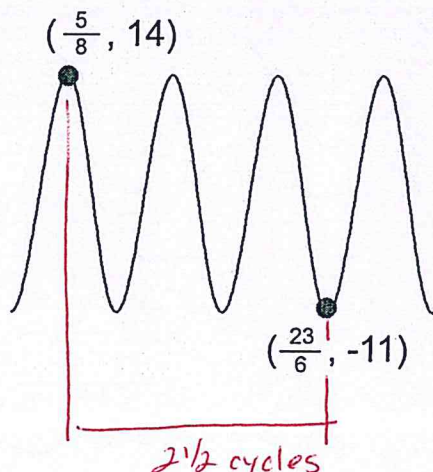
MIDLINE: $y = -2$

Period = $\frac{20}{2\frac{3}{4}} = \frac{20}{11/4}$

$= 20 \cdot \frac{4}{11}$

$= \frac{80}{11}$

2.



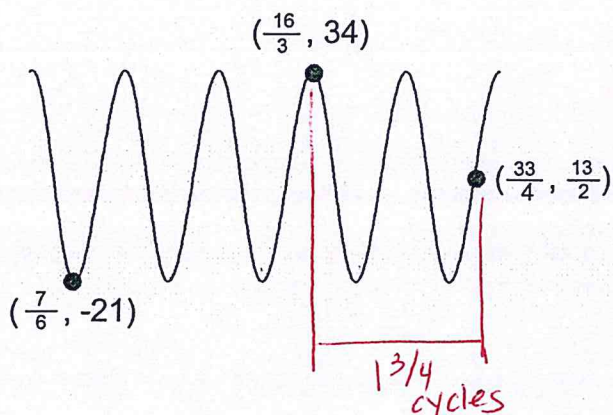
Amplitude: $\frac{14 - (-11)}{2} = \frac{25}{2}$

MIDLINE: $y = \frac{14 + (-11)}{2} \Rightarrow y = \frac{3}{2}$

Period: $\frac{\frac{23}{6} - \frac{5}{8}}{2\frac{1}{2}} = \frac{\frac{92}{24} - \frac{15}{24}}{5/2} = \frac{\frac{77}{24}}{5/2}$

$= \frac{77}{24} \cdot \frac{2}{5} = \frac{77}{60}$

3.



Amplitude = $\frac{34 - (-21)}{2} = \frac{55}{2}$

midline: $y = \frac{13}{2}$

Period: $\frac{\frac{33}{4} - \frac{16}{3}}{1\frac{3}{4}} = \frac{\frac{99}{12} - \frac{64}{12}}{7/4}$

$= \frac{\frac{35}{12}}{7/4} = \frac{35}{12} \cdot \frac{4}{7} = \frac{5}{3}$