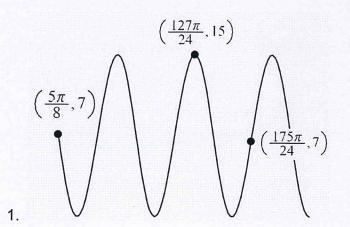
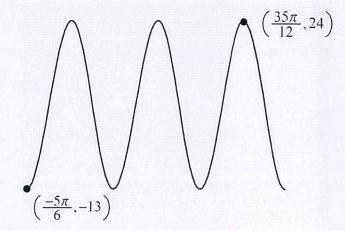
Find the EXACT period, amplitude, and equation for the midline for each Sine graph below.

1.

2.





For 3 and 4 refer to the following information.

	Petunia	Rose	Zinnia	Total
Pink	6	6	4	16
Red	8	4	4	16
White	2	8	6	16
Total	16	18	14	48

Flowers in Leta's Assortment by Color and Type:

3. Leta separates out the white flowers and picks one of them at random. What is the probability that the flower Leta picks is a rose? (Express your answer as a decimal or as a fraction, not as a percent.)

4. Leta wants to create a floral arranglement using two additional types of flowers, calla lillies and carnations. The ratio of calla lillies to carnations in the floral arrangement will be the same as the ratio of roses to petunias displayed in the table. If Leta uses 27 calla lillies, how many carnations will she use?

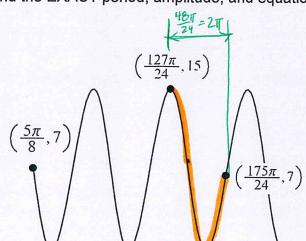
Bellwork Al

Alg 2B

Tuesday, March 6, 2018

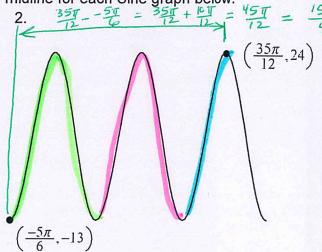
AnswErs

Find the EXACT period, amplitude, and equation for the midline for each Sine graph below.



Period:
$$\frac{2\pi}{3/4} = 2\pi \cdot \frac{4}{3}$$

For 3 and 4 refer to the following information.



MIDLINE:
$$y = \frac{24 + -13}{2} = \frac{11}{2} \quad y = \frac{11}{2}$$

Amplitude = $\frac{24 - -13}{2} = \frac{37}{2}$

$$\frac{15\pi}{2\frac{1}{2}} = \frac{15\pi}{4}$$

$$= \frac{15\pi}{2\frac{1}{2}} = \frac{3\pi}{2}$$

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$$\frac{\text{Calla lillies}}{\text{carnations}} = \frac{\text{roses}}{\text{petunias}}$$

$$\frac{27}{\text{carnations}} = \frac{18}{16} \qquad \text{# carnations} = 24$$