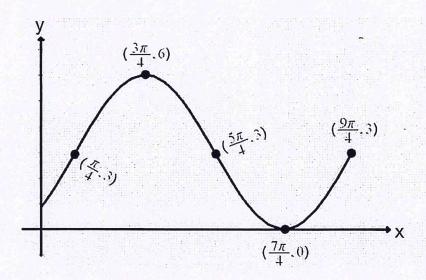
1. Find the the equations of the Vertical Asymptotes and the x-intercepts of the following rational equation:

$$y = \frac{x^2 - 25}{x^2 - x - 6}$$

2. Write a Sine and a Cosine equation for this graph.



3. Graph one period of this function. Label the coordinates of all Maximums, Minimums, and pts on the midline.  $y = -8\cos\left(\frac{1}{2}\left(x - \frac{5\pi}{6}\right)\right) + 1$ 

Bellwork

Alg 2B

Tuesday, March 20, 2018

Answers

1. Find the the equations of the Vertical Asymptotes and the x-intercepts of the following rational equation:

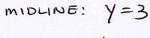
$$y = \frac{x^2 - 25}{x^2 - x - 6}$$

$$= \frac{(x+5)(x-5)}{(x-3)(x+2)}$$

$$X = -213$$

2. Write a Sine and a Cosine equation for this graph.





period 
$$\frac{9\pi}{4} - \frac{\pi}{4} = \frac{8\pi}{4} = 2\pi$$

$$b = 1$$

$$\frac{(\frac{7\pi}{4}.0)}{\text{Sin} ! \ \gamma = 3 \sin(x - \frac{\pi}{4}) + 3}$$

3. Graph one period of this function. Label the coordinates of all Maximums, Minimums, and pts on the midline.  $y = -8\cos\left(\frac{1}{2}\left(x - \frac{5\pi}{6}\right)\right) + 1$ 

