Hon Alg 2 Hwk #34

Sec 13-7

Spring 2017

Name:

Write the equation of each using the description of the transfomations applied to each parent function.

1. Parent function: Cosx Transformations: Upside-down, $Period = \frac{2\pi}{7}$, shift $\frac{\pi}{4}$ to the left & 10 units up.

EQ:

2. Parent function: Sinx Transformations: Vertical stretch factor of 4, Period = 6π , shift $\frac{3\pi}{4}$ to the right and 9 units down.

EQ:

3. Graph one period of this function. Label the coordinates of the maximums, minimums, and x-intercepts.

$$y = 8\operatorname{Cos}(3(x - \frac{\pi}{6})) - 5$$

- 4. Write a Cosine Eq for this graph. EQ:
- 5. Write both a Sine and a Cosine Eq for this graph. Cos EQ:

Sin EQ:



