

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

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

EQ:

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

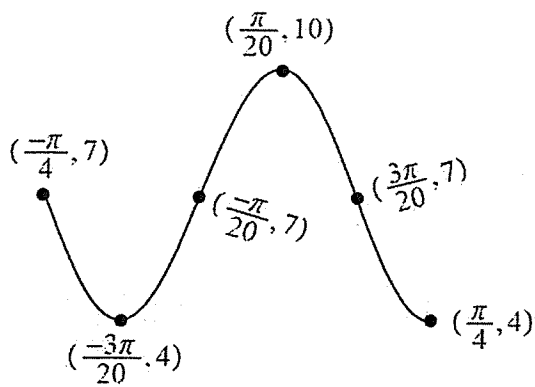
EQ:

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

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

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:

