

6a.) So the y vs. t above ends up being a sine wave and the x vs. t ends up being a cosine wave. What is the difference between the sine wave and the cosine wave?

6b.) Complete the following sentence: For the graphs above, the max amplitude of the y component of the ball's position lags behind the max amplitude of the x component by _____ radians or _____ degrees and, in this case, _____ seconds

7.) We said it takes 20 seconds to complete one revolution. This is called the *period* of ball. It's symbol is T_p . What is the relationship between ω and T_p ?