

## **8.2** Sine and Cosine Curves

b) 
$$y = \frac{1}{2}\cos 2\pi x$$
  
 $A = \left| \frac{1}{2} \right| = \left| \frac{1}{2} \right|$   
 $P_{0} = \frac{2\pi}{B} = \frac{2\pi}{2\pi} = 1$ 



3. Write and equation for the graph in terms of SINE and COSINE!!!!



Period = 1 frequency



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Exit Slip

1. In 2 – 3 sentences, talk about the graph of y = sinx as it relates to y = 3 sin 2x. Be sure to include terminology like period, amplitude, stretched, compressed, factor, horizontal, etc...

2. How do you believe that the graph of  $y = \sin x$  would be related to  $y + 2 = \sin \left(x - \frac{\pi}{2}\right)$ ? Would the period change? Would the amplitude change? Use 1 or 2 sentences.