

You probably made a mistake with the calculation of the period. The amplitude of this graph and  $y = 3\cos\left(-\frac{1}{2}x\right)$  is 3. However, this graph has a period of  $\pi$ , while  $y = 3\cos\left(-\frac{1}{2}x\right)$  has a period of  $4\pi$ .