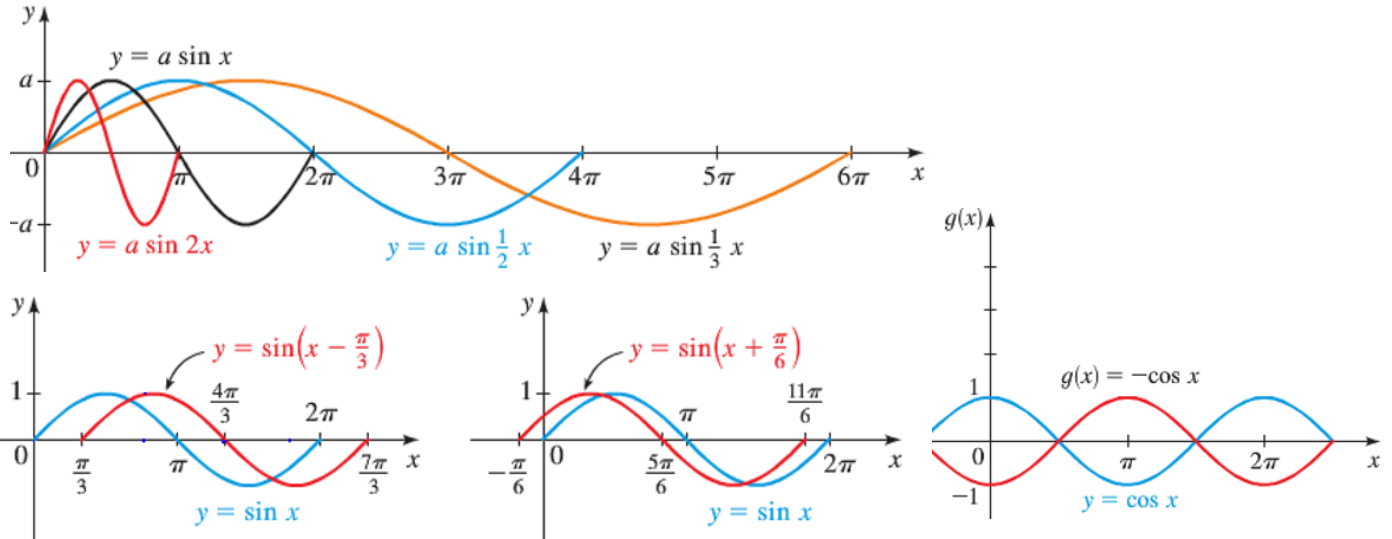


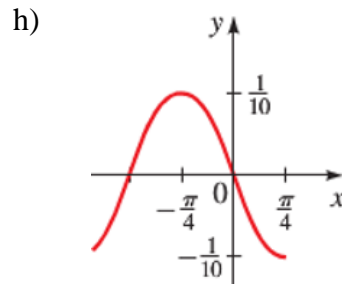
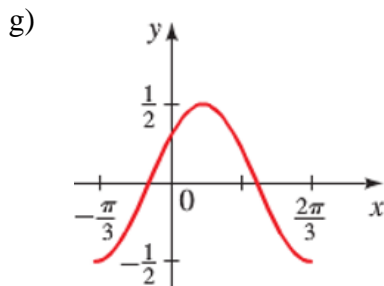
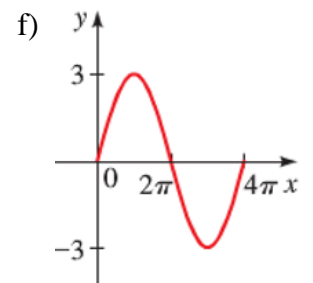
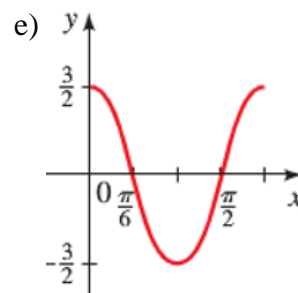
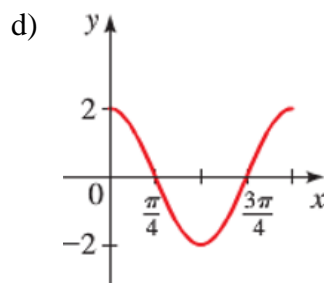
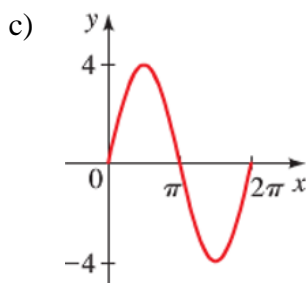
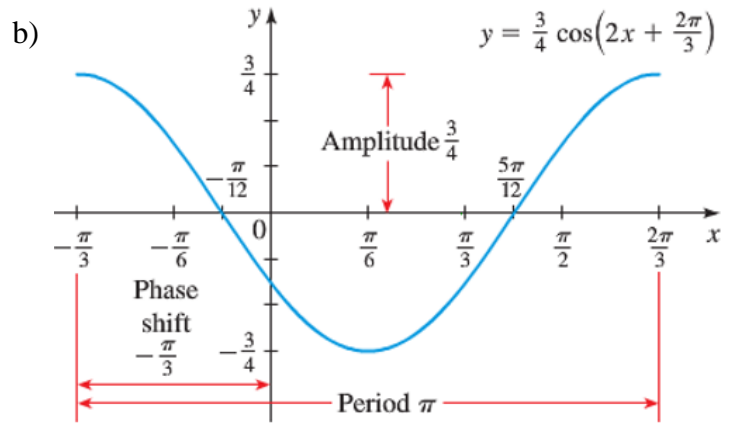
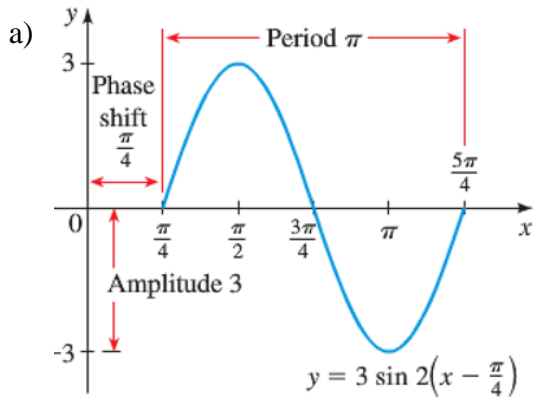
5.5 In-class Practice

1. State transformations of the basic function needed to obtain each graph.



2. Find the amplitude, period, and phase shift.

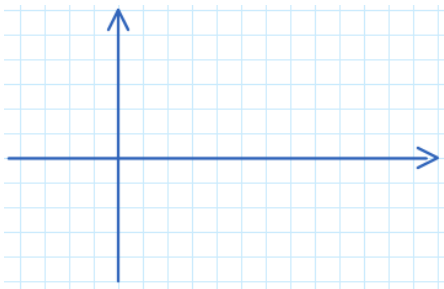
Then, write the equation of the graph in the form $y = a \sin b(x - c)$ or $y = a \cos b(x - c)$.



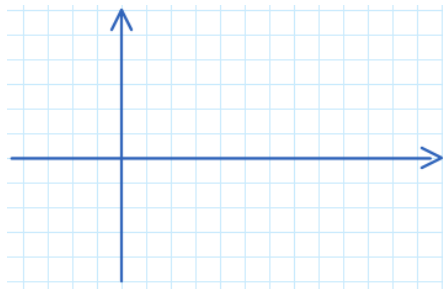
5.5 In-class Practice

3. Find the amplitude, period, and phase shift of the function, and then graph one complete period.

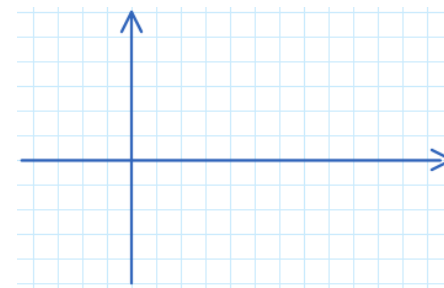
a) $y = 1 + \frac{1}{2} \cos \pi x$



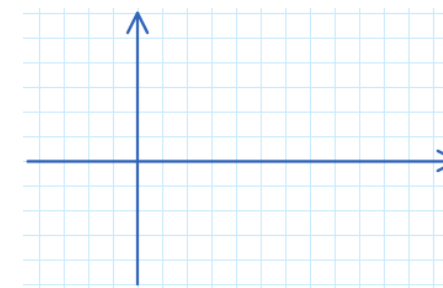
b) $y = 2 \sin \left(x - \frac{\pi}{3} \right) - 1$



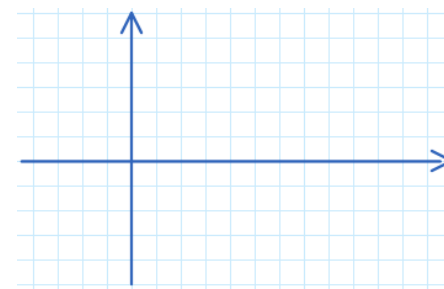
c) $y = \frac{3}{2} \cos \left(2x + \frac{\pi}{2} \right)$



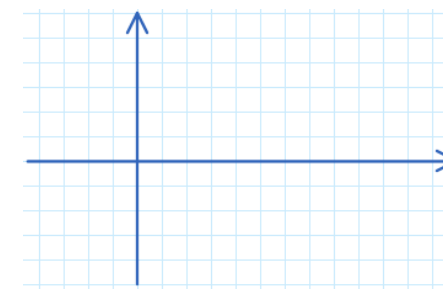
d) $y = -\sin \frac{1}{2} \left(x + \frac{\pi}{4} \right)$



e) $y = 2 \sin \left(\frac{2}{3} x - \frac{\pi}{6} \right)$



f) $y = 1 + \cos \left(3x + \frac{\pi}{2} \right)$



4. Graph $f(x) = |\sin x| + 1$.

