Honors Precalculus
Graphing Sine and Cosine wksht C

Name: $\qquad$
Date: $\qquad$

Use the graph provided to graph the following problems. You may not change the x -axis scale on the graph, but you can add values where they would fit on the x -axis within the scale. Your final graph must fit the full length of the given graph from left to right.
For each graph, identify the amplitude, period, phase shift, and vertical shift.

1. $y=\frac{2}{3} \cos \left(\frac{x}{2}-\frac{\pi}{4}\right)$

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

3. $y=\cos \pi x+1$

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

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

