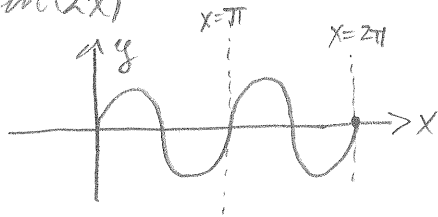


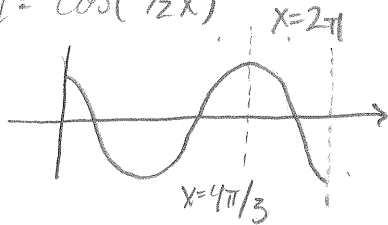
5.4

4. Graph the following functions over the interval $(0, 2\pi)$

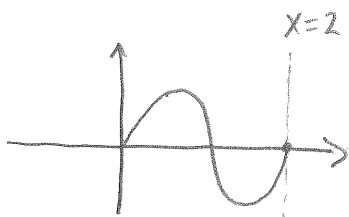
a) $y = \sin(2x)$



b) $y = \cos(\frac{3}{2}x)$



c) $y = \sin(\pi x)$



If you were to extend this to $[0, 2\pi]$, there would be π periods of $\sin(\pi x)$ (roughly 3).

10. Graph $y = 3\sin(2x) - 1$, find its amplitude, period, and frequency.

The amplitude is 3, the period is $\frac{2\pi}{2} = \pi$, and the frequency is 2 periods (over the interval 2π).

