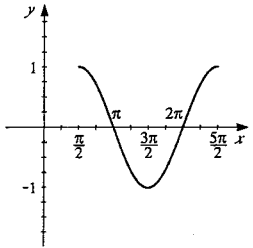
32. $y = \cos\left(\frac{\pi}{2} - x\right) = \cos\left(x - \frac{\pi}{2}\right)$
amplitude $= 1$, period $= 2\pi$,
phase shift $= \frac{\pi}{2}$



34. (a) amplitude $= a = 2$, period $= \frac{2\pi}{k} = \pi$, phase shift $= b = 0$
(b) $y = a\cos k(x - b) = 2\cos 2x$

36. (a) amplitude $= a = 4$, period $= \frac{2\pi}{k} = \frac{3}{2}$, phase shift $= b = -\frac{1}{2}$
(b) $y = 4\sin\frac{4\pi}{3}\left(x + \frac{1}{2}\right)$

38. (a) amplitude $= a = 5$, period $= \frac{2\pi}{k} = 1$, phase shift $= b = 0$
(b) $y = 5\cos 2\pi x$