Read pp 244-246 FiRST
40811
ANSWERS
Writing Equations: Transformations of Trig Functions B7
Write an equation for each of the following in terms of $y=a \sin [b(x-c)]+d$



$$
y=\sin 2 x
$$

$$
y=3 \sin (x+\pi)
$$

note: "c" cooke change

$$
\begin{aligned}
& y=3 \sin (x-\pi) \\
& y=-3 \sin x
\end{aligned}
$$



$$
\begin{aligned}
& y=\sin 2\left(x+\frac{\pi}{2}\right) \\
& y=-\sin 2 x \\
& y=\sin 2\left(x-\frac{\pi}{2}\right)
\end{aligned}
$$

Write an equation for each of the following in terms of $y=a \cos [b(x-c)]+d$



$$
y=\cos \left[\frac{1}{2}(x-3 \pi)\right]+B
$$

$$
y=3 \cos \left(x-\frac{2 \pi}{6}\right)+1
$$

" Cvalues manguary"

$$
\left.y=3 \cos \left(x+\frac{5 \pi}{6}\right)+1\right)
$$



$$
\begin{aligned}
& y=-3 \cos \left(x-\frac{\pi}{6}\right)+1 \\
& y=2 \cos \left[\frac{\operatorname{mi}}{0} \mathrm{C}(x-1)\right]-1 \\
& y=-2 \cos \pi x-1 \\
& \text { or } \\
& y=2 \cos \pi(x+1)]-1 \\
& \text { many mae } \\
& \text { possiblitues }
\end{aligned}
$$

