

January 102013 6th.gwb - 2/4 - Thu J an 102013 13:09:25

$\rfloor$ Write an equation of a sine function with amplitude (4), period $\pi$. phase shift
$-\frac{\pi}{8}$, and vertical shift 6.

$$
\begin{aligned}
& y=A \sin (k \theta-c)+h \\
& y= \pm 4 \sin \left(2 \theta+\frac{\pi}{4}\right)+6
\end{aligned}
$$

Per $=\frac{2 \pi}{k} \quad$ P. S. $=\frac{c}{k}$

$$
\begin{gathered}
\pi=\frac{2 \pi}{k} \quad 2\left(-\frac{\pi}{8}\right)=\frac{c}{k}(2) \\
k=\frac{-2 \pi}{8}=c \\
-\frac{k}{4}=c
\end{gathered}
$$


p. 383-386

14-15, 17-18, 21-23, 27-
$29,31-32,34-35,41$,
43, 54

