J anuary 292013 7th.gwb - 1/2 - Tue J an 292013 13:30:16

$$
\begin{aligned}
& \text { (b) } \max =60 \mathrm{~cm} \\
& \min =40 \mathrm{~cm} \\
& A_{m p l}=\frac{60-40}{2}=10 \\
& \text { V.S. }=\frac{60+40}{2}=5 \mathrm{~V} \\
& \max _{3.3} \max _{3.3} \quad \text { Period }=3.3-3=3 \mathrm{sec} \\
& 60=10 \cos \left(\frac{2 \pi}{3}(3)-c\right)+50 \\
& 3=\frac{2 \pi}{k} \\
& 10=10 \cos \left(\frac{.6 \pi}{3}-c\right) \\
& K=\frac{2 \pi}{3} \\
& 1=\cos \left(\frac{.6 \pi}{3}-c\right) \\
& \cos ^{-1}(1)=\frac{\frac{b \pi}{3}-c}{3} \\
& 0=\frac{.6 \pi}{3}-c \\
& C=\frac{.6 \pi}{3} \approx .63 \\
& \stackrel{.2 \pi}{1}=\frac{\pi}{5}
\end{aligned}
$$


(2)



