Unit 6, HW 5A
\#2-10, 12, 14

$$
\begin{array}{lc}
\text { 2. } \sin ^{-1}\left(-\frac{1}{2}\right) & 9 \cdot \sin ^{-1}\left(\frac{\sqrt{2}}{2}\right) \\
\frac{7 \pi}{6}+2 \pi n, \text { where } n \text { is. } & \frac{\pi}{4} \text { rads }, 45^{\circ} \\
\frac{11 \pi}{6}+2 \pi n, \text { an integer } \ldots & \text { 10. } \sin ^{-1}(0) \\
\text { 3. } \tan ^{-1}\left(\frac{\sqrt{3}}{3}\right) & 0 \operatorname{rads}, 0^{\circ} \\
\frac{\pi}{6}+2 \pi n \text {, and } \frac{7 \pi}{6}+2 \pi n & \text { 12. } \tan \theta=1.4, \text { for }-90<\theta<90 \\
\text { where } n \text { is an integer } & \theta=54.5^{\circ} \\
\text { 4. } \cos ^{-1}\left(-\frac{\sqrt{2}}{2}\right) & \text { 14. } \cos \theta=-25 \\
\frac{3 \pi}{4}+2 \pi n \text { and } \frac{5 \pi}{4}+2 \pi n & \theta=104.5^{\circ}
\end{array}
$$

5. $\cos ^{-1}\left(\frac{\sqrt{3}}{2}\right)$

$$
\begin{aligned}
& \frac{\pi}{6} \text { rads } \\
& 30^{\circ}
\end{aligned}
$$

6. $\operatorname{Tan}^{-1}(1)$

$$
\begin{aligned}
& \frac{\pi}{4} \text { rads } \\
& 45^{\circ}
\end{aligned}
$$

7. $\cos ^{-1}(2)$ undefined
8. $\operatorname{Tan}^{-1}(-\sqrt{3})$
$-\frac{\pi}{3}$ rads
$-60^{\circ}$
