1. Find the value of $\sin ^{-1}\left(-\frac{1}{2}\right)$. Express your answer in degrees.
2. Find the value of $\sin ^{-1}\left(\frac{\sqrt{3}}{2}\right)$. Express your answer in degrees.
3. Find the value of $\sin ^{-1}\left(\frac{1}{2}\right)$. Express your answer in degrees.
4. Find the value of $\sin ^{-1}\left(-\frac{\sqrt{2}}{2}\right)$. Express your answer in degrees.
5. Find the value of $\cos ^{-1}\left(\frac{1}{2}\right)$. Express your answer in degrees.

NAME: $\qquad$
7. Find the value of $\cos ^{-1}\left(-\frac{\sqrt{3}}{2}\right)$. Express your answer in degrees.
8. Find the value of $\cos ^{-1}\left(-\frac{\sqrt{2}}{2}\right)$. Express your answer in degrees.
9. Find each angle in the interval from $0^{\circ}$ to $90^{\circ}$ to the nearest tenth.
a. $\sin ^{-1} 0.25$
b. $\cos ^{-1} \frac{1}{8}$
c. $\tan ^{-1} 2 \sqrt{3}$
10. Compare the quantity in Column A with the quantity in Column B.
Column A Column B
$A=\cos ^{-1} 0.8 \quad B=\sin ^{-1} 0.8$
$0<A<\frac{\pi}{2} \quad 0<B<\frac{\pi}{2}$
[A] The quantity in Column A is greater.
[B] The quantity in Column $B$ is greater.
[C] The two quantities are equal.
[D] The relationship cannot be determined on the basis of the information supplied.
[1] $-30^{\circ}$
[2] $60^{\circ}$
[3] $30^{\circ}$
[4] $-45^{\circ}$
[5] $60^{\circ}$
[6] $120^{\circ}$
[7] $150^{\circ}$
[8] $135^{\circ}$
[9] a. $14.5^{\circ}$; b. $82.8^{\circ}$; c. $73.9^{\circ}$
[10] B

