$\qquad$
2.3.2 Why didn't my calculator tell me? Inverse Sine and Cosine


## \#135

(a) through (e)

$$
y=\sin ^{-1}(x)
$$



f. State the domain and range of $f(x)=\sin (x)$ that you chose in part (e). What are the corresponding domain and range of $f^{-1}(x)=\sin ^{-1}(x)$ ?
g. Describe the portion of $f(x)=\sin (x)$ that you highlighted in part (e).
h. Review the graph of $f(x)=\sin (x)$. Is there a different portion of the graph that you could have chosen in part (e)? If so, state the domain of this portion of the graph and describe it.
$\qquad$
2.3.2 Why didn't my calculator tell me? Inverse Sine and Cosine


c. What are the domain and range of $f(x)=\cos (x)$ that you chose in part (b)? What are the corresponding domain and range of $f^{-1}(x)=\cos ^{-1}(x)$ ?
d. Describe the portion of $f(x)=\cos (x)$ that you chose in part (b).
e. Review the graph of $f(x)=\cos (x)$. Is there a different portion of the graph that you could have chosen in part (b)? If so, state the domain of this portion of the graph and describe it.

