

BOX 3

18. Without using technology, determine whether each statement is true or false. Justify your answer.

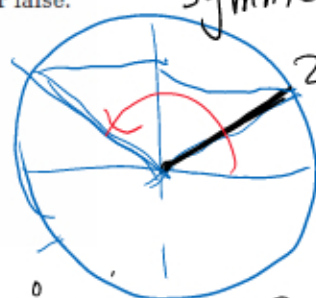
✓ a) $\sin 151^\circ = \sin 29^\circ$

→ b) $\cos 135^\circ = \sin 225^\circ$

c) $\tan 135^\circ = \tan 225^\circ$

d) $\sin 60^\circ = \cos 330^\circ$

e) $\sin 270^\circ = \cos 180^\circ$



$$151 + 29 = 180$$

complements
symmetric

BOX 4

$$135 \neq 225 \rightarrow \begin{array}{r} 135 \\ 225 \\ \hline 360 \end{array}$$



$$0, 30, 45, 60, \dots$$

$$\sin 45 = \cos 45 = \frac{\sqrt{2}}{2}$$

$$180 - 45$$

$$180 + 45 = 225$$



$$360 - 45 = 315$$

$$\cos 45 = -\sin 315$$