

In the table below, imagine that the terminal side of the angle θ is the hour hand of the clock superimposed on the unit circle. You must translate the given time to the proper angle: 2:30 PM would correspond to a 15° angle in standard position. 11:30 AM would correspond to a 105° angle. No calculator needed or wanted in filling out the table.

- 1 Quickly fill in the table with the exact values of the given clock-face angles:

Hour	$\theta \in [0^\circ, 360^\circ)$	$\theta \in [0, 2\pi)$	$\sin(\theta)$	$\cos(\theta)$	$\tan(\theta)$
3 PM					
2 PM					
1:30 PM					
1 PM					
12 noon					

- 2 Fill in the table with the exact values of the given clock-face angles:

Hour	$\theta \in [0^\circ, 360^\circ)$	$\theta \in [0, 2\pi)$	$\sin(\theta)$	$\cos(\theta)$	$\tan(\theta)$
10:30 AM					
7 PM					
5 PM					
7:30 PM					