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Name

10	-6B										page 2
10.	0 . How are the intercepts in Questions 8 and 9 and the unit circle related?										
11.	. Name an interval over which the cosine value is positive										
12.	Name an interval over which the cosine value is negative but the sine value is positive.										
13.	Name an interval over which the cosine value is negative										
Fill	in the Blank	s In 14-	17, refe	r to you	r graph	from Qu	estion 4				
14.	As θ increase	es from 9	0° to 18	0°, cos (9		from		to	·	
15.	As θ increases from 90° to 180°, sin θ from to										
16.	As θ increases from -360° to -270°, sin θ from from θ								to _		
17.	As θ increases from -360° to -270°, $\cos \theta$ from to										
18.	The table bel 12 hours in Ju	0	0				•	every			
	Day	6/1	6/1	6/2	6/2	6/3	6/3	6/4	6/4	6/5	6/5
	Time	5:46 AM	5:47 PM	6:35 AM	6:40 PM	7:24 AM	7:31 PM	8:12 AM	8:21 PM	9:00 AM	9:11 PM

Height (ft)

-1.5

a. Explain why these data can be modeled by a periodic function.

-2

2.8

b. Estimate the domain and range of a sinusoidal function that models these data.

2.6

-4.1

-4.5

2.3

-4.5

2.4

2.4