					ORE s max)			
_	STRONOMY 2 IIRD HOUR SESSION "K"	NAME	KEY - K					
AC	CTIVITY: Astronomy Apps	DATE			ID#			
Or	oen the app Star Chart							
-	Facing west, find a constellation that contant above the horizon. Give the name of the							
	Inst	ructor Ch	eck	Instruct	tor Che	eck		
2.	What is the azimuth of the star from question #1? (ROUND to the nearest degree).							
	Арр	Approximately 270 deg						
3.	3. Of the three stars Rigel, Spica, and Canopus—determine which is movisible from Rocklin on Friday of this week at 10pm.							
	Fall	Fall: Rigel, Spring: Spica						
4.	What is the Right Ascension and Declina (ROUND RA to the nearest minute, and Dec	•						
		5h 15m ng: 13h 25	m	Fall: -8 o	_			
5.	Returning to the current time, find a constellation closest to the zenith that contains a bright, named star. Give the name of the star, and its altitude (ROUND alt to the nearest degree)							
	·	ructor Ch	eck	Approx	90 de	g		
6.	Face north and find the constellation _U star in this constellation?	north and find the constellation _Ursa Major What is the brightest this constellation?						
	Alio	th						
7.	What is the apparent magnitude of the star							
	+1.7	'6						
8.	Set the date to noon of Friday this week. What time will the sunRise_							
	6:08	am						
9.	Keeping the date set to Friday of this videtermined in Question #8. Which of the ei	• • • • • • • • • • • • • • • • • • • •						

(Questions continue on back)

Uranus, Mercury, Venus, Neptune, Saturn, Jupiter

10.	planet that is above									
			Venus		1.46 au					
		·								
	er the remaining of current time and of		ne app	Sky Safari. The	e time should be set					
11. Find the comet _1P/Halley What constellation is it in? What is its apparent (visual) magnitude? What is its distance in astronomical units?										
		Hydra		25.5	34.5 au					
12. How many times further away from us is the object in Question 11, compared to the average distance the Earth is from the Sun?										
					34.6					
13. Find the belt asteroid _Ceres What is its diameter in km?										
				848 km						
14. The naked eye can see to magnitude 6; good binoculars can see to magnitude 10; our campus telescopes could see to approximately magnitude 14, and the Hubble Space Telescope can see to magnitude 30. What optical system(s)—naked eye, binoculars, campus telescope, or HST, could detect the object in Question 11?										
		HST								
15. What optical system(s)—naked eye, binoculars, campus telescope, or Hubble Space Telescope, could detect the object in Question 13?										
		Binocs, Scope, HS	ST							
16. Change the date to _Jul 25 and set the time to _2:55 am What 1 st magnitude star (+1.5 or brighter) has most recently risen, nearly due East? What constellation is it in?										
			Aldeb	aran	Taurus					
17. Can the Sun ever be in the sky, near the star in Question #16? If so, on what day? (Hint: use SC001 star chart)										
	- ,	,	Yes		June 1					

Fill in options

6: Ursa major/Ursa minor: answers = Polaris or Alioth

That results in Q#7 having answers +2 (and 9.1) or 1.76

8: Rise/Set

11: 1p/Halley or 10p/Temple 2

13: Ceres/Pallas/Vesta

16: July 25/Nov 25 and 02:45/ 04:00
Answers = Aldebaran/Spica and Taurus/Virgo

That results in Q#17 having answers June 1 or Oct 18