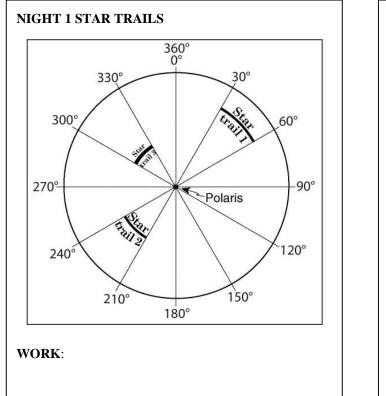
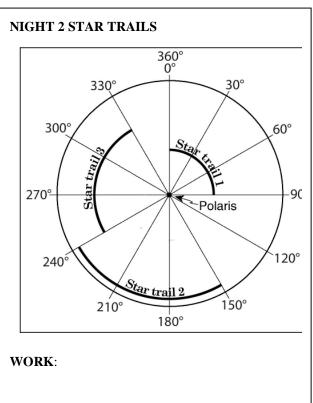
Earth Science Reg	gents
Star Trails Pract	ice

Name		
Period	Date	

2013 by Z. Miller. Adopted from August 2004 Earth Science Regents Exam, Question #26

Base your answers to the following questions on a camera that was placed outside at night and pointed directly at Polaris and several other stars for four nights. The lens was kept open and a time-exposure photograph was taken each night. The diagrams below represent the photographs of Polaris and star trails, with an angular protractor to measure apparent motion each night.





1) In the space provided calculate the amount of time it took to take each photograph.

2) Explain how you determined your answers to the above questions:

_	
3) Write a relationship sentence describing how the length of star of trails is related to the time-exposure of a photograph:	4) Complete the star trails relationship gra below:
As	r Trails
	ength of Star Trails
	Leng

**Duration of Time-Exposure**