Exercise A13: Precession and Nutation

Student name:	Class:	Date:	
Check the box with the correct of	inswer.		
Question 1: What is the prece	ssion period of the Eart	n's spin axis?	
□ a . 6,000 years			
□ b . 11,600 years			
□ c. 25,600 years			
☐ d . 22,000 years			
Question 2: What is significant	t about the diameter of	the precession circle?	
☐ a . It is equal to twice t	he angular tilt of the Ed	rth's spin axis.	
\square b . It is equal to the an	gular tilt of the Earth's s	pin axis.	
☐ c. It is equal to one-ha	lf the angular tilt of the	Earth's spin axis.	
☐ d . It is equal to the sep	paration between Polar	s and the North Ecliptic F	ole.
Question 3: At what time in the	e past could Vega have	been considered as the	North Star? (Hint:
Run time backwards to determ	mine this date.)		
□ a . 1,000 BC			
□ b . 5,000 BC			
□ c . 12,000 BC			
□ d . 15,000 BC			
Question 4: In which constella	tion was the Vernal equ	inox when Hipparchus m	ade his
observations in the second centu	ry BC? (Hint: Press the	Run Time Backward b	outton).
□ a . Capricornus			
□ b. Aquarius			
□ c. Aries			
☐ d. Pisces			

Question 5: What is the period of nutation?

- □ a. 5 years
- □ **b**. 10 years
- □ c. 19 years
- □ d. 40 years