Name: _____

Basic Coordinates & Seasons – Posttest

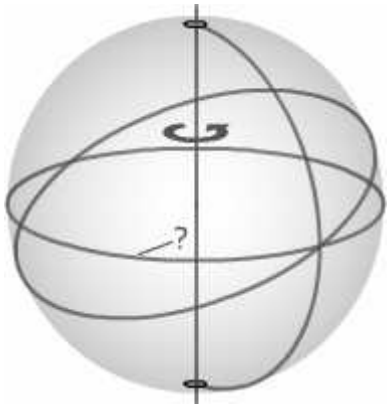
Answer the following questions.

Question 1: The image to the right shows a line that all have the same value of what coordinate?

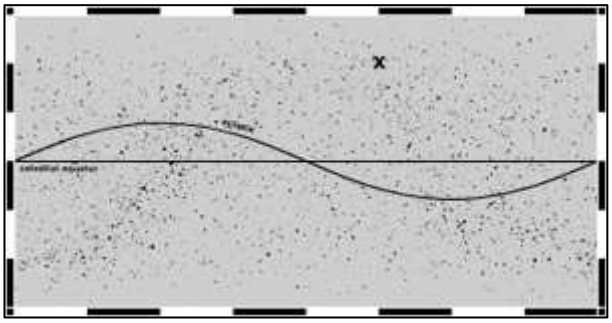
a) right ascension
b) declination
c) neither

Question 2: What is the name of the coordinate feature indicated in the figure to the right?

a) North Celestial Pole
b) 0 Hour Circle
c) Celestial Equator
d) South Celestial Pole
e) Ecliptic

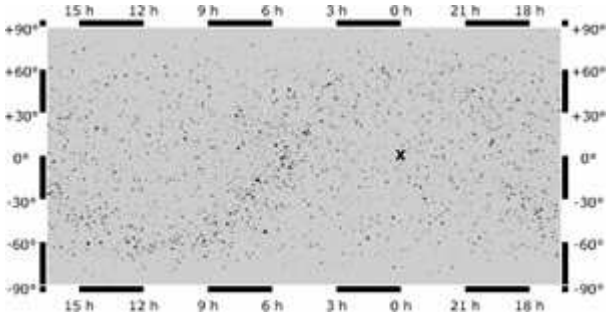


Question 3: To the nearest 3 h, what is the **right ascension** of the coordinate shown? _____



Question 4: A star is at 12 h, -60°. What will the coordinate of the star be 18 hours from now? _____

Question 5: What is the Seasonal Point shown to the right?



a) Vernal Equinox
b) Summer Solstice
c) Autumnal Equinox
d) Winter Solstice
e) None of the Above

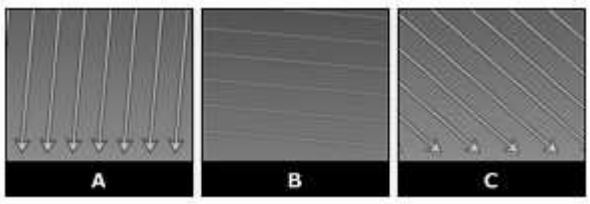
Question 6: Circle all of the following that are a description applicable to the ecliptic.

a) The plane which the solar system orbits in the Milky Way
b) The plane in which the earth orbits the sun
c) The plane extending to infinity from the earth's equator
d) The path the sun travels in the celestial sphere
e) The plane tangent to the earth's surface at the point of the observer

Question 7: If the sun sets south of west for an observer in the southern hemisphere, which of the following is true?

a) The sun will be in the sky longer than 12 hours.
b) The sun will be in the sky less than 12 hours.
c) The sun will be in the sky for (almost exactly) 12 hours.

Question 8: Which surface is most efficiently receiving energy from the sun?



a) A
b) B
c) C
d) They are all equal

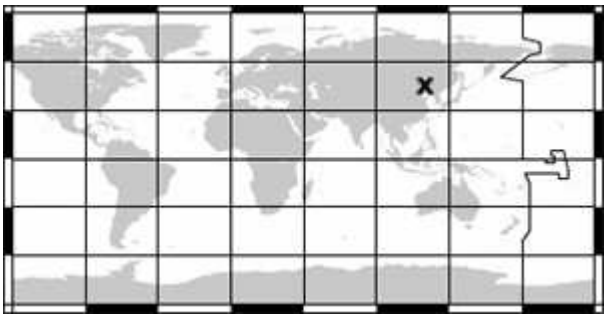
Question 9: What is the zero point or line for longitude?

a) Prime Meridian
b) International Date Line
c) Equator
d) North Pole
e) South Pole
f) Observer's current location

Question 10: What is the name of the line shown to the right?

a) Tropic Capricorn
b) Antarctic Circle
c) Tropic of Cancer
d) Arctic Circle
e) Equator

Question 11: To the nearest 15°, the **x** is at approximately what longitude coordinate? _____



Question 12: Which values of 38°15' in decimal notation? _____