The Age of our Solar system is approximately

-4.6 billion years

As of now most known extrasolar planets have been discovered by

- Doppler technique

Which of the following is not a characteristic of the moons of the solar system planets

- all of the eight classical planets have at least one moon

Which of the following statements about asteroids is not true

- no asteroids have been found beyond the asteroid belt

What is a comet

- the nucleus of a comet is a collection of various ices mixed with dust and tiny bits fo rocky debris

Atmospheres formed around some terrestrial planets because

- outgassing through volcanic activity

Which of the following solar system moons were likely formed through the same processes as our solar system

- jupiter’s so called Galilean moons

what was the ice or frost line of the solar system

- between present day rbits of mars and Jupiter

which of the following is not characteristic of the terrestrial planets

- they have more moons than the jovian plants

why haven’t we detected low mass planets close to their stars and high mass planets far from their stars

- Both A and B above

To date about how many extrasolar planets have been discovered

- 700

what are the main constituents of the jovian planets

- hydrogen and helium

the first small solid grans or flakes formed in our solar system by the process of

- condensation

what is an extrasolar planet

- a planet that orbits a star that is not our sun

What is an exoplanet moon

- it is an object orbiting an exoplant

at firs the suns present dat rotation seems to contradict the prediction of the nebular theory because

- sun should have been roating fast when it formed, but the actual rotation is fairly slow

why did the solar nebula heat up as it collapsed

- as the cloud shrank, its gravitational potential energy….

Which of the following statements about the jovian planets is not true

- outermost jovian planet Uranus….

Which one of the following is a characteristic of jovian planets

- low average density

the terrestrial planet cores contain mostly metal because

- metals condensed first in the solar nebula and the rocks then accreted around them

based on available data what kind of objects in our solar system do most of the known extrasolar planets resemble

- jovian planets

the planet closest in size to earth is

- venus

51 pegasi is important because

- it is the first star like our sun that was found to have a planet orbiting it

which of the following is the origin of almost all the large moons around the jovian planets

- they were formed by condensation and accretion in disk of gas around the planet

which type of exoplanet would you expect to cause the largest Doppler shift

- massive planet close to its star

rank the 5 worlds in order of size from large to small

- earth, venus, mars mercury moon

the asteroid belt is found where

- mars and Jupiter

according to our theory of solar system formation what is pluto

- one of the largetst Kuiper belt objects

the nebular theory of the formation of the solar system successfully predicts all but one of the following, which one does the theory not predict

- the equal number of terrestrial and jovian planets

which fo the following statements about meteroites is true

- A. a metreorite si whats left of a meteor when it hits the earth’s surface

which detection technique has been used to find orbital dsitnace

- Doppler technique

how much of the solar nebula consisted of eleemnets heavier than hydron and helium

2%

which of the following statements is not an observed pattern of motion in our solar system

- most planets orbit at the same speed

what is the origin of the atoms of hydrogen, oxygen, and sodium in the persipartion that exits your body during this astrononoky test

- hydrogen nuclei were produced a few monutes after the big bang event 13.7 billion years ago …..

which of the following is not a technique that could be used to discover extrasolar planet

- direct binocular

why does the solar nebul;a theory preict that planetary systems are common

- all of the other answers

why are the inner plantes made of denser materials than the outer planets

- in the inner part of the nebula only metals and rocks were able to condense bcause of the high temperatures whereas hydeogen compounds alghouth more abundtant wer only able to condense in the cooler outer regions

which of the following statements about comets is not true

- the nucleus ofa comet is quite large about 100 km across

which of the following is not a characteristic of the general layout of the solar system

- all planets rotate on their polar axes at about the same rate

according to our theory of solar system formation what is the origin of asteroids and comets

- asteroids are the leftover planetsiamls of the inner solar system and comets are the leftover planetsiamsl that formed beyond the freost line