

Considering a wide range of topics that we have learned this block, create an original piece of art (either a drawing, painting, or if you're like me and can only draw stick figures, perhaps a short story) depicting in detail (and with some added, detailed explanations) what it might be like if you lived on one of the following:

- i. A planet slightly smaller than Earth which orbits in the habitable zone around a red dwarf star, with two other rocky worlds orbiting the star close by. Further, suppose this star is in the Milky Way's halo, well above the plane of the Galaxy.
- ii. A planet-sized moon orbiting a Jovian planet which has migrated inward to the point that liquid water can exist on the moon. However, the moon orbits the planet in the same plane as the planet orbits its F-type star. This moon also rotates freely (no synchronous rotation) and is one of many moons in the Jovian planet's gravitational grip.
- iii. An Earth-sized planet which is tidally locked (synchronous rotation) to the center of mass of two dim (binary) stars, stars which resides in the Galactic center, near the Milky Way's super-massive black hole. The stars orbit so close that they are nearly (but not quite!) touching.
- iv. Something else which illustrates a number of things we have learned.

Explanation: