

LIFE IN THE UNIVERSE — AST 07

HW #06

Include your name and 2-digit ID#.

Due at the beginning of the next class.

Write CLEARLY or you will not receive credit.

Match the following five terms to the descriptive sentences below:

Tharsis Olympus Mons Valles Marineris Southern Highlands Northern Plains

1) Perhaps once partially underground, and inundated with water, so a great place to look for fossils?

2) The largest volcano known in our solar system.

3) Low-lying terrain, with very few craters, suggesting a younger surface.

4) 4000 km across and several km tall, a continent-sized region connected to the giant volcanoes of Mars.

5) Ancient, cratered regions with evidence of erosion by rain, wind, or glaciers.

6) A bulging region associated with a plume of mantle material rising from inside Mars.

7) A huge canyon, as long as the US is wide, probably formed as a giant crack to relieve tectonic stresses.

8) Regions where we can find hydrated deposits and minerals such as clay and opal.

9) Terrain where volcanism with very fluid lava partially covers the lands—obscuring old craters.

10) A vast mountain, rimmed by a cliff that is up to 6 km tall.
