

# LIFE IN THE UNIVERSE — AST 07

## HW #06

Name: \_\_\_\_\_

**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.

\_\_\_\_\_

\_\_\_\_\_