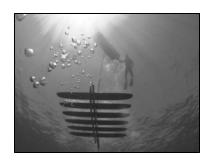
Round: 8A

1. Identify each type of autonomous vehicle pictured below. (3 pts)







- 2. Describe the principles that each vehicle shown in Question 1 uses for horizontal propulsion. (6 pts)
- 3. From the photos in Question 1, identify which vehicle would be most appropriate for each of the following scientific missions, and state why. (9 pts)
 - a. Measuring near surface salinity across the Atlantic Ocean for validation of the new NASA Aquarius satellite.
 - b. Using sidescan sonar to map potential mine fields in a bay.
 - c. Mapping full depth profiles of temperature and density fields across a continental margin.
- 4. What type of glider has both long range (40,000 km) and endurance (5 years) using environmental energy? (2 pts)