

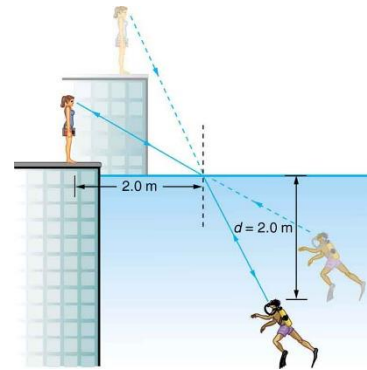
Name: \_\_\_\_\_ Date: \_\_\_\_\_

## AP 2 Optics: Apparent Depth-whiteboard

1. The floor of a water tank appears at a depth of 2.5 m. If the refractive index of water is 1.33, find the actual depth of water.

2. Using the diagram, answer the following questions:

- a) Find the height of the instructor's head above the water.



- b) Find the apparent depth of the diver's head below the water as seen by the instructor.

3. A 1.7 m tall woman is looking at her reflection in mirror at the bottom of a pool. What is the apparent depth of the reflected image?

