

- 14** A cylindrical block of wood has a cross-sectional area A and weight W . It is totally immersed in water with its axis vertical. The block experiences pressures p_t and p_b at its top and bottom surfaces respectively.

Which of the following expressions is equal to the upthrust on the block?

- A** $(p_b - p_t)A + W$
- B** $(p_b - p_t)$
- C** $(p_b - p_t)A$
- D** $(p_b - p_t)A - W$

- 15** The vector diagram shows three coplanar forces acting on an object at P