

- 4** A man walking inside a shallow swimming pool managed to accelerate himself forward with a constant horizontal acceleration, a . Given the following information, which equation describes the horizontal motion of the man?

Mass of man: m

Upthrust: U

Drag force of water: f_D

Frictional force from the floor of the pool: f

Acceleration due to gravity: g

A $f - f_D = ma$

B $mg - U = ma$

C $f_D - f + mg - U = ma$

D $f - f_D + U = ma$