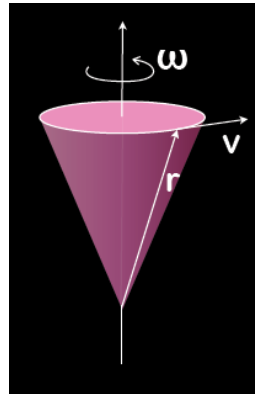Which one is correct?

A) $V = \omega \times r$
B) $V = r \times \omega$

Which force is more important for an object that is moving very slowly in a rotating frame?
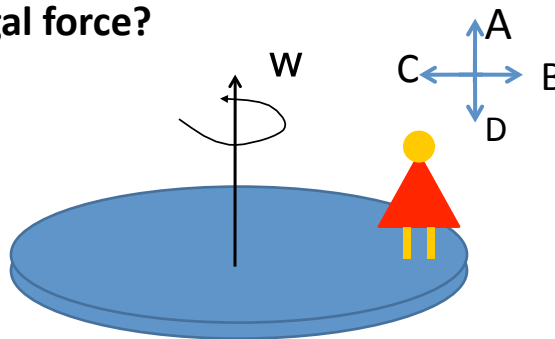
A) Coriolis
B) Centrifugal
C) Equal
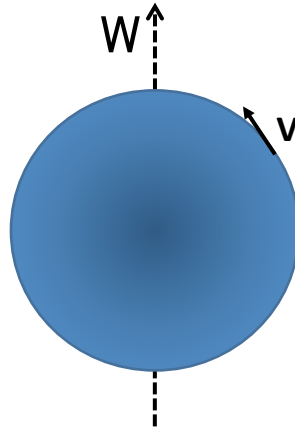D) Need more info

Rotating Frames:

Consider a person sitting at rest on a Merry-go-round that is rotating with constant angular velocity. To the person, what is the direction of the centrifugal force?
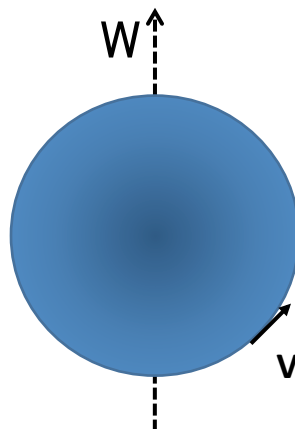

A)   B)   C)   D)

You fire a cannon due north at a latitude of 45º N. What is the direction of the Coriolis force on the cannon ball?

A) North
B) South
C) East
D) West

W↑
V
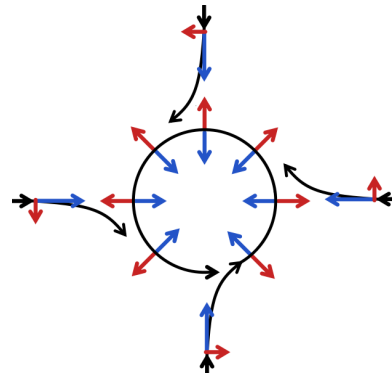
You fire a cannon due north at a latitude of 45º S. What is the direction of the Coriolis force on the cannon ball?

A) North
B) South
C) East
D) West

W↑
V

Perhaps the most important instance of the Coriolis effect is in the large-scale dynamics of the oceans and the atmosphere.

This low pressure system over Iceland spins counter-clockwise due to balance between the Coriolis force and the pressure gradient force.