Section 7.2 - Velocity

A heading is the direction in which a vessel is steered to overcome other forces, such as wind or current, with the intended resultant direction being the bearing.

Heading (air velocity)
Windor current

Bearing = direction of
the resultant

Ground Velocity: is the velocity of an object

velative to the ground. It is

the resultant, or bearing velocity

when the heading velocity,

or air velocity, and the

effects of wind or coverent

are added.

ex1: An airplane is flying at an airspeed of 500 km/h on a heading of 040°. A 150 km/h wind is blowing from a bearing of 120°. Determine the ground velocity of the airplane and the direction of the flight.



