



The speed of an airplane relative to the ground is affected by wind. When an airplane flies in the direction of a wind (tailwind), it has a greater groundspeed. When an airplane flies directly into a wind (headwind), it has a smaller groundspeed.

Suppose an airplane flies with a 90-degree crosswind (the nose pointing in a direction perpendicular to the wind direction). Will its groundspeed be more, less, or the same as in still air?