1. The wheels on a wagon resolve forces into components parallel and pendicular to the wagon. Only the parallel component drives motion in the desired direction. A horse and a mule are pulling on a wagon viewed from the top.

a. Resolve the horse and mule vectors into components parallel and pendendicular to the wagon wheels.
b. Find the net force driving the wagon forward.
c. Instead take the horse direction and its perpendicular (crudely in the direction of the mule) as a coordinate system. Find the components of the horse, mule, and wagon forward vectors in this coordinate system.
