

A student rides a bike east, applying 15 N of force to the pedals. The wind blows with 4 N of force against her back. The sidewalk exerts 7 N of frictional force against the bike tires. What is the net force acting on the bike?

Two soccer players hit a soccer ball in mid-air at the exact same time. One soccer player is exerting a force of 24 N towards the south and the 2nd player is exerting 37 N of force towards the east. What is the resultant force acting on the ball?