

Problem 12 (Rigid Body Kinematics)

(a) See provided solution file.

(b) See provided solution file.

- ☒ One example is a wheel rolling horizontally in the negative 1-axis direction. In this case, the point B is initially the point on the wheel that is in contact with the ground; its acceleration is constant in the body-fixed frame and is towards the center of the wheel. The point Q is the center of the wheel.