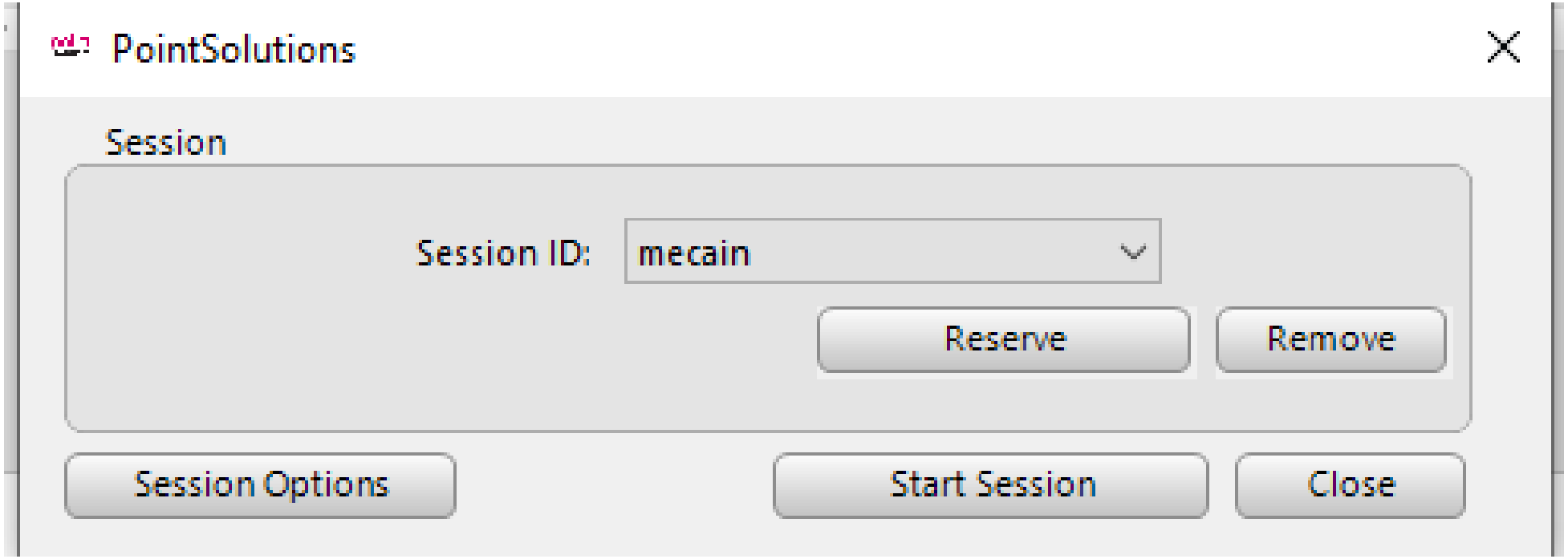
https://participant.turningtechnologies.eu/en/join



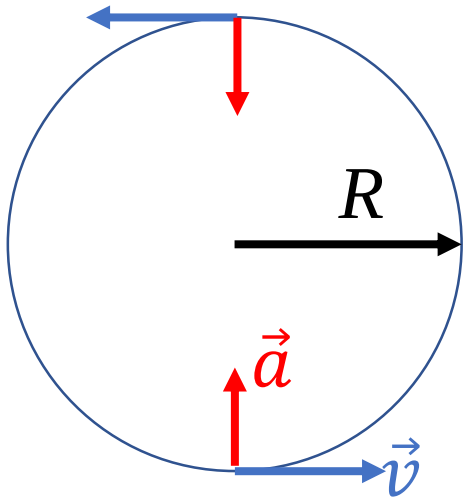
Un point matériel tourne à vitesse constante sur un rail horizontal: quelle situation est correcte si $|\vec{\omega}| = \frac{2}{3}R[s^{-1}]$ et R = 1 [m]?

✔ A. 1)

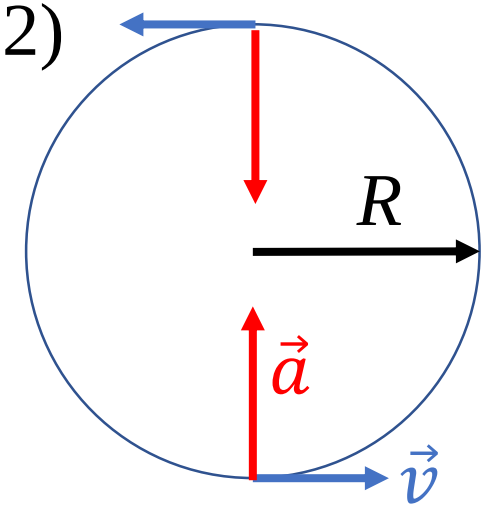
B. 2)

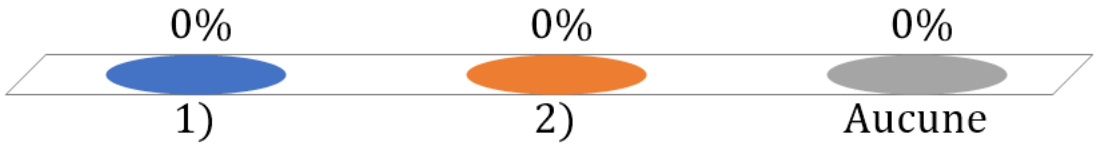
C. Aucune

1)



2)





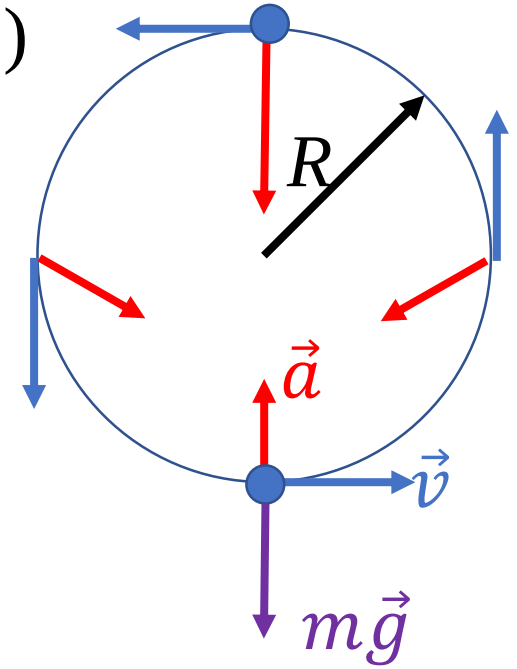
Un point matériel de masse *m* tourne à vitesse constante sur un rail vertical: quelle situation est correcte?

A. 1)

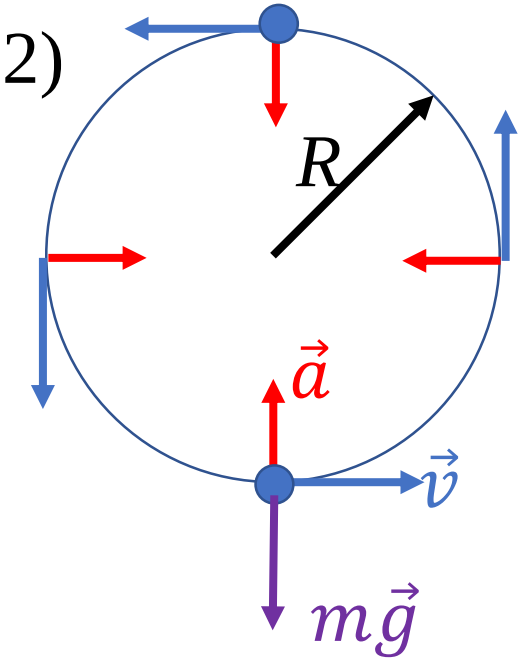
B. 2)

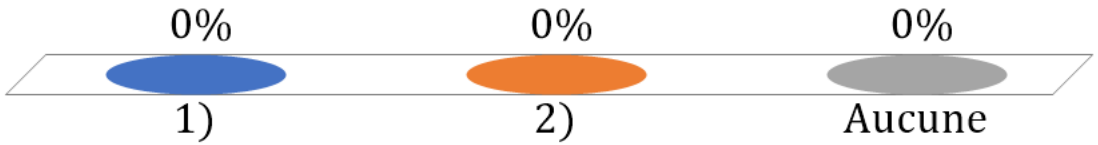
C. Aucune

1)



2)





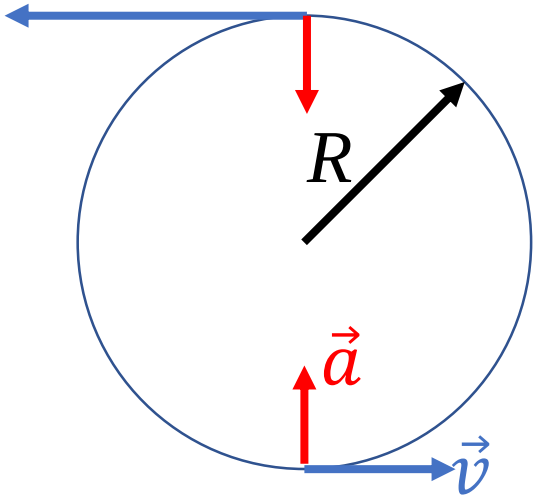
Un point matériel de masse *m* accéléré uniformément le long d'une circonférence verticale : quelle situation est correcte?

A. 1)

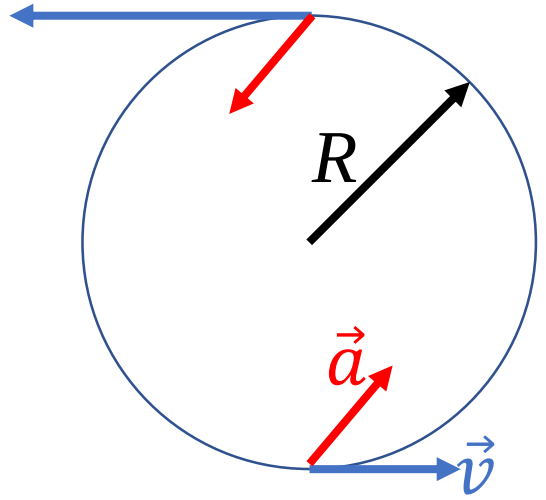
B. 2)

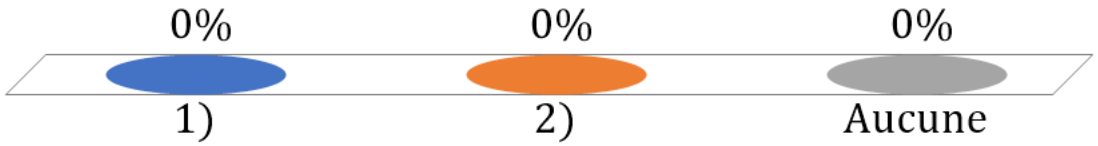
✔C. Aucune

1)



2)





Quel est le rayon de la circonférence décrite par un point de masse m, charge q et vitesse $\vec{v}$ dans un champ magnétique uniforme $\vec{B} \perp \vec{v}$ et donc soumis à la force de Lorentz $\vec{F} = q\vec{v} \wedge \vec{B}$?

A. 1)
B. 2)
✓ C. 3)
D. Aucune

1)
$$R = \frac{mv}{B}$$

2)
$$R = \frac{mv^2}{qB}$$

3)
$$R = \frac{mv}{qB}$$