A juggler is juggling three tennis balls. At the instant shown, ball A is going up; ball B is coming down. Both balls have negligible horizontal motion.

What is the direction of the net force on A?

1. ↑
2. ↓
3. →
4. ←
5. It is 0.

A juggler is juggling three tennis balls. At the instant shown, ball A is going up; ball B is coming down. Both balls have negligible horizontal motion.

What is the direction of the net force on B?

1. ↑
2. ↓
3. →
4. ←
5. It is 0.

A juggler is juggling three tennis balls. At the instant shown, ball A is going up; ball B is coming down. Both balls have negligible horizontal motion.

What is the direction of the acceleration of A?

1. ↑
2. ↓
3. →
4. ←
5. It is 0.

A juggler is juggling three tennis balls. At the instant shown, ball A is going up; ball B is coming down. Both balls have negligible horizontal motion.

What is the direction of the acceleration of B?

1. ↑
2. ↓
3. →
4. ←
5. It is 0.

A juggler is juggling three tennis balls.
When the ball A is <u>at the top</u> of its trajectory:

What is the direction of the velocity of A?

1. ↑
2. ↓
3. →
4. ←
5. It is 0.

A juggler is juggling three tennis balls.
When the ball A is <u>at the top</u> of its trajectory:

What is the direction of the net force on A?

1. ↑
2. ↓
3. →
4. ←
5. It is 0.

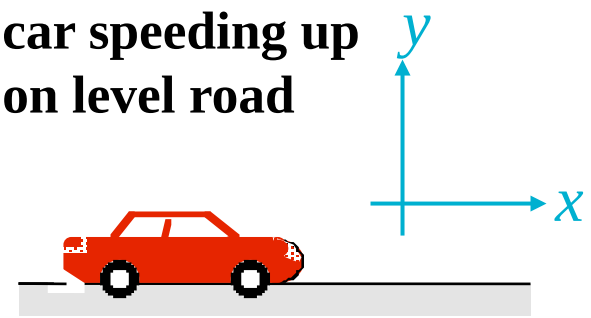
A juggler is juggling three tennis balls.
When the ball A is <u>at the top</u> of its trajectory:

What is the direction of the acceleration of A?

1. ↑
2. ↓
3. →
4. ←
5. It is 0.

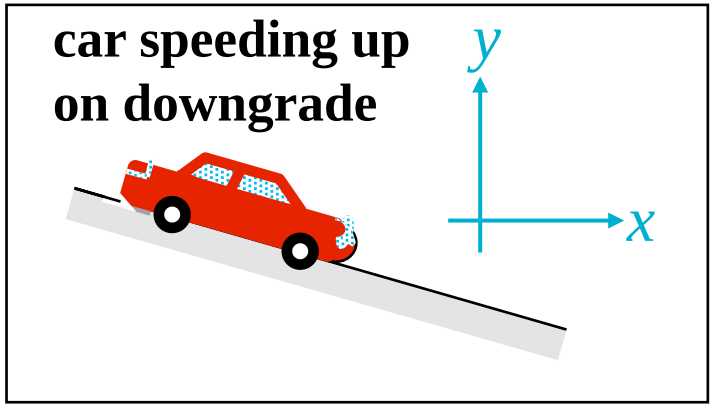
Choose the answer that correctly describes the forces on t
moving object in the coordinate frame shown.

car speeding up on level road



1. $\sum F_x = 0, \quad \sum F_y = 0$
2. $\sum F_x = 0, \quad \sum F_y \neq 0$
3. $\sum F_x \neq 0, \quad \sum F_y = 0$
4. $\sum F_x \neq 0, \quad \sum F_y \neq 0$

Choose the answer that correctly describes the forces on the moving object in the coordinate frame shown.



1. $\sum F_x = 0, \quad \sum F_y = 0$
2. $\sum F_x = 0, \quad \sum F_y \neq 0$
3. $\sum F_x \neq 0, \quad \sum F_y = 0$
4. $\sum F_x \neq 0, \quad \sum F_y \neq 0$