

## Chapter 8 Rotational Motion Acceleration and Circular Motion

Newton's 2<sup>nd</sup> law,  $a = F/m$ , tells us that net force and its corresponding acceleration are always in the same direction. But force and acceleration vectors are not always in the direction of velocity (another vector).

1. You're in a car at a traffic light. The light turns green and the driver "steps on the gas." The sketch shows the top view of the car. Note the direction of the velocity and acceleration vectors.



- Your body tends to lurch [forward] [not at all] [backward].
- The car accelerates [forward] [not at all] [backward].
- The force on the car acts [forward] [not at all] [backward].

2. You're driving along and approach a stop sign. The driver steps on the brakes. The sketch shows the top view of the car. Draw vectors for velocity and acceleration.



- Your body tends to lurch [forward] [not at all] [backward].
- The car accelerates [forward] [not at all] [backward].

3. You continue driving, and round a sharp curve to the left at constant speed.

- Your body tends to lean [inward] [not at all] [outward].
- The direction of the car's acceleration is [inward] [not at all] [outward].
- The force on the car acts [inward] [not at all] [outward].

Draw vectors for velocity and acceleration of the car.



4. In general, the directions of lurch and acceleration, and therefore the directions of lurch and force are [the same] [not relate] [opposite].



5. The whirling stone's direction of motion keeps changing.

- If it moves faster, its direction changes [faster] [slower].
- This indicates that as speed increases, acceleration [increases] [decreases] [stays the same].

6. Like Question 5, consider whirling the stone on a shorter string—that is, of smaller radius.

- For a given speed, the rate that the stone changes direction is [less] [more] [the same].
- This indicates that as the radius decreases, acceleration [increases] [decreases] [stays the same].



# Conceptual Physics Answer Key Chapter 34

**Paul Allen Tipler**



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