

CHAPTER 3 Motion in Two and Three Dimensions

Answers to Understanding the Concepts Questions

1. In the absence of gravity, the boy would simply aim directly at the coconut in order to make a direct hit. Since gravity pulls the rock down while it is in flight, the boy needs to aim higher than the coconut.
2. If the athlete behaved like a projectile once he or she has left the ground, then we know from our thinking about projectiles that there are two factors: the initial speed and the initial angle. The athlete approaches the take-off spot with a short sprint, just long enough so that his or her speed is at its maximum value. At this point the athlete has to translate the motion so that it has a vertical component, and some of the initial horizontal velocity is translated into vertical motion, with a net loss in speed. There is a trade-off here, and the human body is such that too much initial speed is lost if the athlete tries to take off at a 45° angle, even though this angle maximizes the range for a given initial speed. Thus a long jump champion leaves the take-off spot at an angle smaller than 45° , trading the reduced range associated with a smaller angle for a higher initial speed. A second factor that certainly plays a role, albeit a somewhat smaller one, is wind resistance. A following wind can add inches to the jump, and if the following wind is too strong a jump cannot qualify as a record. As our discussion shows, the most important contribution to the length of the jump is the ability to convert the highest possible initial speed to a vertical motion that gets as close as possible to a takeoff at 45° . It is known that good sprinters generally make good long-jumpers, but not all sprinters hold long-jump records.
3. A strong wind blowing in the direction of motion of the athlete can increase the speed of the athlete relative to the ground. Such an increase, which may result in an improvement of, say, an extra inch in the long jump or $1/10$ of a second shorter in the 100-m dash, provides an unfair advantage and renders the world-record meaningless.
4. If the motion is entirely linear, any nonzero acceleration leads to a changing speed. In fact any component of the acceleration parallel to the velocity will change the velocity's magnitude. Only if the acceleration is entirely perpendicular to the motion does the speed remain unchanged, although the direction of the velocity must change. We studied a version of this case in some detail: uniform circular motion.
5. No. In order to reach the point directly across from the river, your boat must have no velocity component *along* the flow of the river current. Since the river flows at 2 mi/h you must row the boat in such a way that its velocity component along the riverbank is 2 mi/h upstream, relative to the water, so as to cancel the velocity of the river flow. But since 2 mi/h is how fast you can row the boat relative to the water, that would mean that you do not have any velocity component that is perpendicular to the river bank. Your boat would just end up motionless in water, relative to the bank. To be able to cross the river you must land somewhere downstream and walk to the destination.
6. The upper trajectory is more subject to effects due to wind, both because it is higher and because the flight time is longer for that trajectory. The lower trajectory has a shorter flight time, and this may allow the pass to reach the receiver before defenders can react properly. This trajectory is superior when the receiver is between the passer and a defender. However, the higher trajectory may be better in that the ball may be beyond the reach of intermediate defenders. The upper trajectory is superior when the receiver is beyond the defender, so that this is the trajectory normally chosen for long passes.

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Irvin A. Miller



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