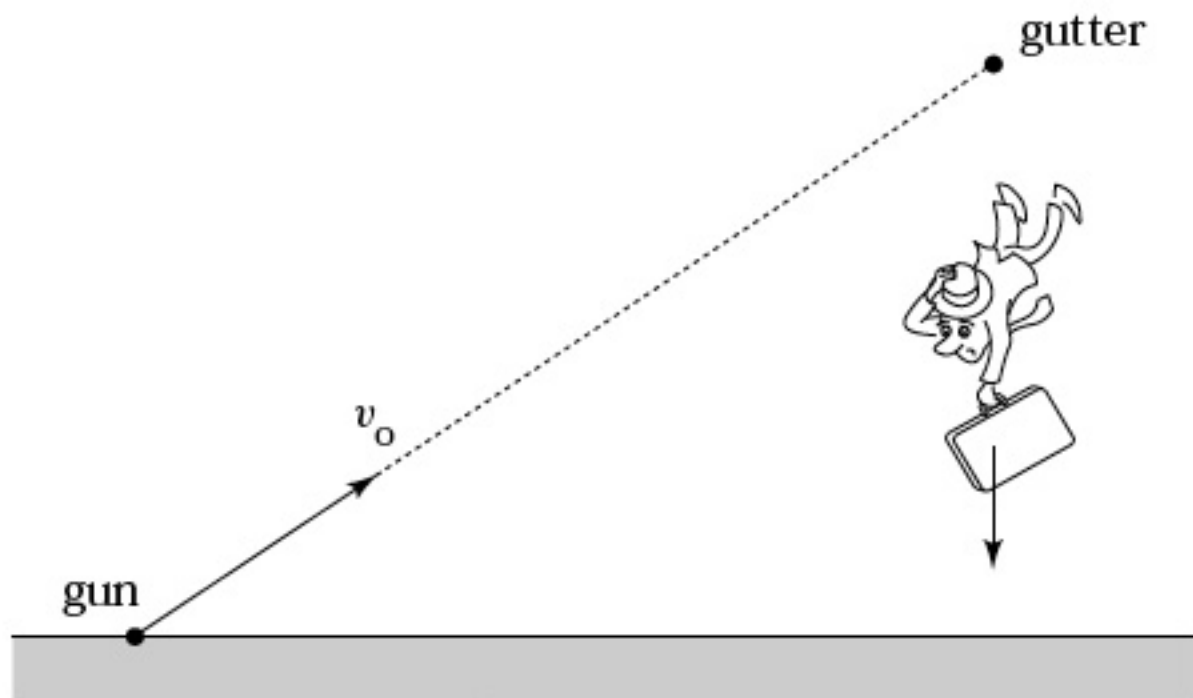


Consider the situation depicted here. A gun is accurately aimed at a dangerous criminal hanging from the gutter of a building. The target is well within the gun's range, but the instant the gun is fired and the bullet moves with a speed v_o , the criminal lets go and drops to the ground. What happens? The bullet



1. hits the criminal regardless of the value of v_o .
2. hits the criminal only if v_o is large enough.
3. misses the criminal.