

For each of the following please explain all of the places where Newton's 3 laws of motion are acting.

1. An arrow is shot from a bow the arrow flies and becomes stuck in a tree.
2. A person is pushing a heavy rock up a hill. When the person stops pushing the rock begins to roll in the other direction.
3. An astronaut is working on the ISS (International Space Station) to move across the room he/she needs to push off from the wall.
4. A book is dropped in the hallway and hits the ground, loudly.
5. A ball is stationary until someone kicks it. It then bounces off the back wall and comes back toward the person who kicked it.