

# Download Answers To Circular Motion Gravitation

Part E: Problem-Solving. 29. A roller coaster car loaded with passengers, has a mass of 500 kg; the radius of curvature of the track at the bottom point of a dip is 12 m. CHAPTER 5: Circular Motion; Gravitation Answers to Questions 1. The problem with the statement is that there is nothing to cause an outward force, and so the water removed from the clothes is not thrown outward. Rather, the spinning drum pushes INWARD on the clothes and water. But where there are holes in the drum, the drum can't push on the water, and so the water is not pushed in. Instead ...Answer: CF. A is false; if the motion is in a circle at constant speed, the net force is perpendicular to the direction of motion and there is neither a component parallel nor anti-parallel to the direction of motion.) B is false; it is centripetal force which causes the circular motion. Inertia (which is NOT a force) is merely the tendency of any moving object to continue in its straight-line constant speed path. For an object in circular motion the velocity is tangential, ruling out choices B, C, and D. Newton's second law tells us that the net force is parallel to the acceleration.