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NOTE: Show your work, and circle the correct answer. Solve all questions and problems. ... 6.4 Glancing Collisions. 13. A 20-g bullet moving at 1 000 m/s is fired through a one-kg block of wood emerging at a speed of 100 m/s. Chapter 6 The linear momentum p of an object is the product of the object's mass m and velocity v Linear momentum is a vector quantity and has the same direction as the velocity. SI Unit of Momentum: kg m / s or N s Chapter 6: Momentum And Collisions $p = m r r IF = \Delta t r r l r$ Average force in impulse The impulse of a force is the product of the Chapter 6: Momentum And Collisions Mr. Adams teaches physics, precalculus and Advanced Placement AP Calculus. These tutorials cover a wide variety of topics. These topics include: Linear Funct... Physics Chapter 6 Linear Momentum and Collisions - YouTube The momentum becomes zero in both cases, so both change by the same amount. 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