Assignment Previewer http://	//www.webassign.net/v4cgikchowdary@evergreen/control.pl	Assignment Previewer	http://www.webassign.net/v4cgikchowdary@evergreen/control.pl
HW6 - due 6 pm Day 13 (Wed. Aug. 13) (6008301)		5. Question De A profess	etails OSCoIPhys1 8.P.011.WA. [2611607]
		109 kg a (;	nd the blow strikes him near his center of mass and while he is motionless in midair. Determine the following. a) impulse the boxer imparts to his opponent by this blow 228 kg · m/s
<ol> <li>Question Details         <ul> <li>(a) Calculate the momentum of a 2150 kg elephant charging a hunter at a s</li> <li>(b) Compare the elephant's momentum with that of a 0.0400 kg bullet fired</li> <li>(c) What is the momentum of the 90.0 kg hunter running at 7.50 m/s after</li> <li>(c) What is the momentum of the 90.0 kg hunter running at 7.50 m/s after</li> </ul> </li> </ol>	OSColPhys1 8.1.001. [2153186] speed of 7.50 m/s. at a speed of 600 m/s. missing the elephant?	() ( ir Support Phy	<ul> <li>b) the opponent's final velocity after the blow</li> <li>2.09 m/s</li> <li>c) Calculate the recoil velocity of the opponent's 5.0-kg head if hit in this manner, assuming the head does not itilially transfer significant momentum to the boxer's body.</li> <li>itilially transfer significant momentum to the boxer's body.</li> <li>img Materials</li> </ul>
<ol> <li>Question Details</li> <li>(a) What is the momentum of a 1.40 x 10<sup>4</sup> kg garbage truck moving at 29.0</li> </ol>	OSColPhys1 8.1.004. [2153356]		
(b) At what speed would an 8.00 kg trash can have the same momentum?		6. Question De A baseba with the	etails OSCoIPhys1 8.P.008.WA. [2611508] Il with a mass of 150 g is thrown horizontally with a speed of 41.4 m/s (93 mi/h) at a bat. The ball is in contact bat for 1.15 ms and then travels straight back at a speed of 45.1 m/s (101 mi/h). Determine the average force
<ul> <li>Ouestion Details</li> <li>An object is traveling such that it has a momentum of magnitude 24.7 kg · r the following.         <ul> <li>(a) speed of the object</li> <li>(b) mass of the object</li> </ul> </li> </ul>	oscolPhys1 8.P.005.WA. [2611425] m/s and a kinetic energy of 271 J. Determine	direction Support	of the incoming ball to be positive. (Indicate the direction with the sign of your answer.)          image: https://www.communications.com/image: image: im
I 13 kg Supporting Materials Physical Constants		7. Question Do Two ice si acquires	Atalis       OSCoIPhys1 8.P.014.WA. [2611592]         katers stand facing each other at rest on a frozen pond. They push off against one another and the 48-kg skater         a speed of 0.73 m/s. If the other skater acquires a speed of 0.82 m/s, what is her mass?         242.7 kg
<ol> <li>Question Details</li> <li>When serving a tennis ball, the player hits it when its velocity is zero (at the exerts a force of 530 N on the ball for 5.00 ms, giving it a final velocity of 4</li> </ol>	OSColPhys1 8.2.016.XP. [2153654] e highest point of a vertical toss). The racket 4.0 m/s. Using these data, find the mass of the	Support	ng Materials
ball.		8. Question Di During a velocity o the tackle Supporti	ttails       OSCOIPhys1 8.P.015.WA. [2611742]         football game, a receiver has just caught a pass and is standing still. Before he can move, a tackler, running at a f +4.0 m/s, grabs and holds onto him so that they move off together with a velocity of +2.5 m/s. If the mass of ar is 130 kg, determine the mass of the receiver. Assume momentum is conserved.         Image: Materials         Image: Materials         vsical Constants
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<ul> <li>9. Question Details</li> <li>When a golfer teg golf ball at rest or reduced speed of</li> <li>Supporting Material</li> <li>Physical Cor</li> <li>10. Question Details</li> <li>A knife thrower til</li> </ul>	OSCOIPhys1 8.P.016.WA. [2611531] as off, the head of her golf club which has a mass of 260 g is traveling 43 m/s just before it strikes a 46-g n a tee. Immediately after the collision, the club head continues to travel in the same direction but at a 36 m/s. Neglect the mass of the club handle and determine the speed of the golf ball just after impact. 39.6 m/s is instants OSCOIPhys1 8.P.018.WA. [2611681] hrows a knife toward a 300-g target that is sliding in her direction at a speed of 2.20 m/s on a horizontal	· · · · · · · · · · · · · · · · · · ·	Ouestion Details     A hockey player     of 68.5 kg is mo     managing to mo     following.     (a) the a     (b) the s     Supporting Materi      Physical Co	OSCOIPHys1 8.P.045.WA. [2611622] with a mass of 45.0 kg is traveling due east with a speed of 2.75 m/s. A second hockey player with a mass ving due south with a speed of 7.20 m/s. They collide and hold on to each other after the collision, ve off at an angle $\theta$ south of east, with a speed of $v_{P}$ . Assume friction may be ignored and determine the ngle $\theta$ $\boxed{275.9}^{\circ}$ south of east peed $v_{P}$ $\boxed{4.48}^{\circ}$ m/s us ansate the second secon
frictionless surfac and the knife pass Supporting Material Physical Cor 11. Question Details A truck with a ma collision is approv get damaged. Fin V <sub>car</sub> =	es. She throws a 22.5-g knife at the target with a speed of 41.0 m/s. The target is stopped by the impact ses through the target. Determine the speed of the knife after passing through the target. 11.7 m/s is Interpret to the speed of the knife after passing through the target. OSCOIPHys1 8.P.025. WA. [2611812] ass of 1390 kg and moving with a speed of 15.0 m/s rear-ends a 711-kg car stopped at an intersection. The sintents line up well and do not id the speed of both vehicles after the collision. 19.8 m/s is nstants is nstants	e	14. Question Details A fireworks rock velocities \$\vec{v}_1\$ and (a) spee	OSCOIPhys1 8.P.023.WA [2611466] $23.8$ m/s suddenly breaks into two pieces of equal mass. If the masses fly off with $\vec{v}_2$ , as shown in the drawing, determine the speed of each mass.
12. Question Details An object with a i moving in the sar the collision. 29.0-g object 5.00-g object Supporting Material Physical Cor	OSCOPPys1 8.PO26.W. [261142] mass of 5.00 g is moving to the right at 14.0 cm/s when it is overtaken by an object with a mass of 29.0 g me direction with a speed of 21.0 cm/s. If the collision is elastic, determine the speed of each object after 25.9 cm/s nstants		(b) spee	d associated with $\vec{v}_2$ $\vec{v}_2$ 23.8 m/s instants S(10)2014 7:45 PM
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