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 $N_1 + N_2 = Mg$   
 $(4) \quad N_2 \sin \theta = Mg \sin \theta$   
Figure 2: View from behind. The car is turning to the left. So the faster the car is moving the larger are  $f_1$  and  $f_2$ , and thus the torque into the page.

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The solutions are  $(C_y / C_x) = \sqrt{12}$  and  $(C_z / C_x) = 21$ , so that  $C = C_x (\sqrt{12} \hat{j} + 21 \hat{k})$ . To evaluate  $C_x$ , apply the condition that  $C$  is a unit vector.

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An Introduction to the Mechanics of Solids Solution  
1.1 Introduction 2 1.2 Vectors 2 1.3 The Algebra of Vectors 3 1.4 Multiplying Vectors 4 1.5 Components of a Vector 8 1.6 Base Vectors 11 1.7 The Position Vector  $r$  and Displacement 12 1.8 Velocity and Acceleration 14 1.9 Formal Solution of Kinematical Equations 19 1.10 More about the Time Derivative of a Vector 22 1.11 Motion in Plane Polar Coordinates 26

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With reference to the sketch, the height is  $A \cos \theta$ , so the frontal area is  $AB \cos \theta$ . The depth is  $C \sin \theta$ , so the volume  $V$  is  $V = (AB \cos \theta)(C \sin \theta) = (AC \cos \theta)(B \sin \theta) = A(B \sin \theta \cos \theta) = \frac{1}{2} A(B \sin 2\theta)$ . The same approach can be used starting with a different face.  $V = C(A \sin \theta) \cos \theta = B(C \sin \theta) \cos \theta$ . Note that  $A, B, C$  are arbitrary vectors.

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