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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  $V = (AB \cos \theta)(C \sin \theta) = (A \cos \theta)(BC \sin \theta) = A(B C) \sin \theta \cos \theta$ . The same approach can be used starting with a different face.  $V = C(A B) \sin \theta \cos \theta = B(C A) \sin \theta \cos \theta$ . Note that  $A, B, C$  are arbitrary vectors.

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An Introduction to Mechanics 1, Daniel Kleppner, Robert J ...

Physics 141 Problem Set 2 Corrected Solutions. By Newton's second law:  $\mathbf{f}_1 + \mathbf{f}_2 = M\mathbf{a} = M\mathbf{v}^2/r$   $N_1 + N_2 = Mg$  (4)  $N_2 \sin \theta = Mg \sin \theta$  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  $(C_y/C_x) = -12$  and  $(C_z/C_x) = 21$ , so that  $\mathbf{C} = C_x(i - 12j + 21k)$ . To evaluate  $C_x$ , apply the condition that  $\mathbf{C}$  is a unit vector.

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