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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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Physics 141 Problem Set 2 Corrected Solutions. By Newton 's second law: $f_1 + f_2 = Ma = Mv^2/r = N_1 + N_2 = Mg$ (4) $N_2 \sin \theta = N_1 \sin \theta + Mg \sin \theta$ 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 $C = C_x(i - 12j + 21k)$. To

evaluate C_x , apply the condition that C is a unit vector.

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