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Physics 141 Problem Set 2

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Newton's second law:  $f_1 + f_2 = Ma = Mv^2/r = N_1 + N_2 = Mg$

(4)  $1 N_2 d N_1 L a Mg f_1 f_2$

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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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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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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