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

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

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creek tumbles over rocks and through crevasses, swirling and foaming.

Taffy can be stretched, reshaped and twisted in various ways.

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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) $N_2 \sin \theta = Mg \sin \theta$ $f_1 + f_2$

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.