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Also,  $\mathbf{i}(1,2,1) = (\mathbf{i}, \mathbf{j}, \mathbf{k}) \cdot (1, 2, 1)$ . This would be pictured by drawing the vector  $(1, 2, 1)$  in the opposite direction. Finally,  $4(1,2,1) = (4,8,4)$  which is four times vector  $\mathbf{a}$  and so is vector  $\mathbf{a}$  stretched four times as long in the same direction.  $1 \ 0 \ x-2 \ 0 \ 2 \ y \ 0 \ 2 \ 4 \ z \ a \ b+a \ b \ 9$ . Since the sum on the left must equal the vector on the right ...

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