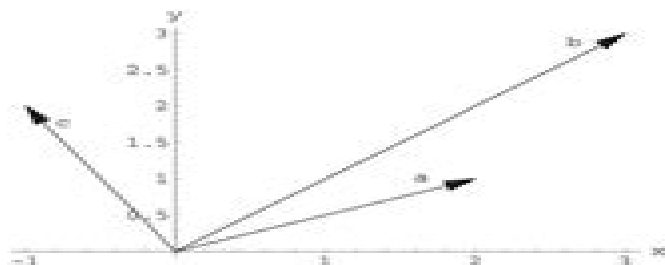


Chapter 1

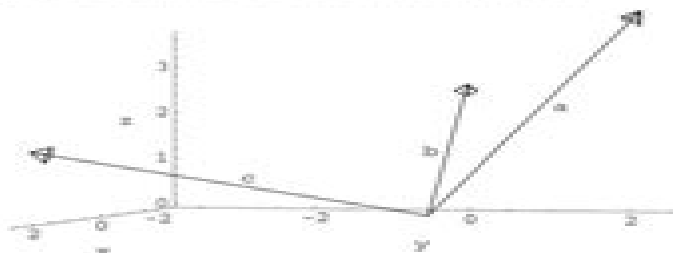
Vectors

1.1 Vectors in Two and Three Dimensions

1. Here we just connect the point $(0, 0)$ to the points indicated:



2. Although more difficult for students to represent this on paper, the figures should look something like the following. Note that the origin is not at a corner of the frame box but is at the tails of the three vectors.



In problems 3 and 4, we supply more detail than is necessary to stress to students what properties are being used:

3. (a) $(3, 1) + (-1, 7) = (3 + [-1], 1 + 7) = (2, 8)$.
 (b) $-2(8, 12) = (-2 \cdot 8, -2 \cdot 12) = (-16, -24)$.
 (c) $(8, 9) + 3(-1, 2) = (8 + 3(-1), 9 + 3(2)) = (5, 15)$.
 (d) $(1, 1) + 5(2, 6) - 3(10, 2) = (1 + 5 \cdot 2 - 3 \cdot 10, 1 + 5 \cdot 6 - 3 \cdot 2) = (-19, 25)$.
 (e) $(8, 10) + 3(8, -2) - 2(4, 5) = (8 + 3(8 - 2 \cdot 4), 10 + 3(-2 - 2 \cdot 5)) = (8, -26)$.
4. (a) $(2, 1, 2) + (-3, 9, 7) = (2 - 3, 1 + 9, 2 + 7) = (-1, 10, 9)$.
 (b) $\frac{1}{2}(8, 4, 1) + 2(5, -7, \frac{1}{2}) = (4, 2, \frac{1}{2}) + (10, -14, 1) = (14, -12, 1)$.
 (c) $-2((2, 0, 1) - 6(\frac{1}{2}, -4, 1)) = -2((2, 0, 1) - (3, -24, 6)) = -2(-1, 24, -5) = (2, -48, 10)$.
5. We start with the two vectors \mathbf{a} and \mathbf{b} . We can complete the parallelogram as in the figure on the left. The vector from the origin to this new vertex is the vector $\mathbf{a} + \mathbf{b}$. In the figure on the right we have translated vector \mathbf{b} so that its tail is the head of vector \mathbf{a} . The sum $\mathbf{a} + \mathbf{b}$ is the directed third side of this triangle.

Vector Calculus Colley 4th Edition Solutions Manual

Karen Pao, Frederick Soon



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the change in enthalpy c what sign or does the change in enthalpy have when the reaction releases heat energy to the
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web energy level 5 to energy level 2 refer to models 1 and 2 for the following questions a label the picture with n 5 to n 2 and
list the corresponding color of light emitted b this electron transition absorbs releases energy c this electron moves from a

lower higher energy state to a lower higher energy state d

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web jul 24 2020 1 the diagram of atp in model 1 has three parts use your knowledge of biomolecules to label the molecule with an adenine section a ribose sugar section and a phosphate groups section 2 refer to model 1 a what is meant by the tri in the name adenosine triphosphate 3 phosphates b

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web test match q chat created by chloejacq18 terms in this set 15 two terms to describe enthalpy changes in reactions endothermic and exothermic if more or stronger bonds are broken than formed then the reaction will be exergonic entropy a measure of disorder or randomness the change in s enthalpy

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web 2 activities for ap biology pogil 3 consider the chemical reaction in model 1 this represents photosynthesis a what substances are the reactants in photosynthesis include the name and chemical formula of each substance in your answer b where in the organelle are these molecules stored before they are used in photosynthesis c

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