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My Assignments

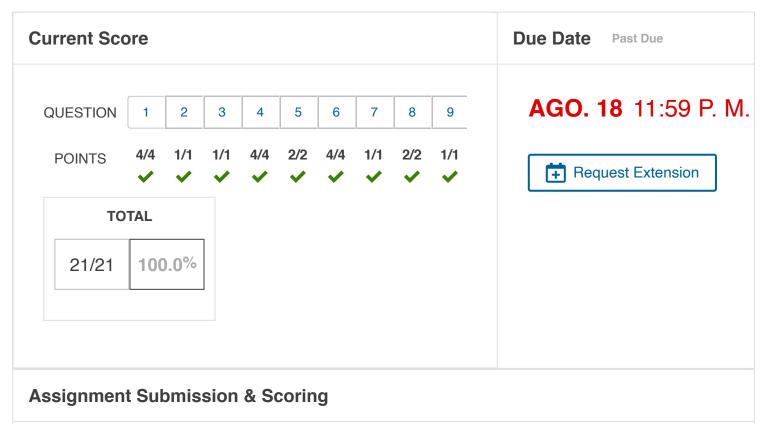
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Tarea 0 Vectores semana 1 (Homework)





Assignment Submission

For this assignment, you submit answers by questions.

Assignment Scoring

Your best submission for each entire question is used for your score.

The due date for this assignment has passed.

Your work can be viewed below, but no changes can be made.

Important! Before you view the answer key, decide whether or not you plan to request an extension. Your Instructor may not grant you an extension if you have viewed the answer key. Automatic extensions are not granted if you have viewed the answer key.



View Key

1. 4/4 points Previous Answers SCalcET8M 12.2.019. 1/5 Submissions Used

My Notes

Ask Your Teacher

Find $\mathbf{a} + \mathbf{b}$, $7\mathbf{a} + 9\mathbf{b}$, $|\mathbf{a}|$, and $|\mathbf{a} - \mathbf{b}|$. (Simplify your answer completely.)

a =
$$\langle -3, 4 \rangle$$
, **b** = $\langle 9, -1 \rangle$
\$\$ $\langle 6, 3 \rangle$

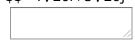
Need Help?

Read It

Find a unit vector that has the same direction as the given vector.

$$-4i + 3j - k$$

\$\$-4\\delta26i + 3\\delta26j - 1\\delta26k





Need Help?

Read It

Find the vector that has the same direction as (6, 9, -2) but has length 2. \$\$<1211,1811,-411>



Need Help? Read It

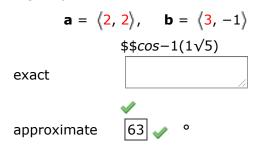


Find a + b, 2a + 3b, |a|, and |a - b|.

$$a = 3i + j$$
, $b = i - 2j$

Need Help?

Find the angle between the vectors. (First find an exact expression and then approximate to the nearest degree.)





Determine whether the given vectors are orthogonal, parallel, or neither.

 $\mathbf{a} = \langle 9, 3 \rangle, \quad \mathbf{b} = \langle -2, 6 \rangle$

- orthogonal
- parallel
- neither

(b) $\mathbf{a} = \langle 4, 5, -2 \rangle, \quad \mathbf{b} = \langle 3, -1, 5 \rangle$

- orthogonal
- parallel
- neither

a = -6i + 3j + 9k, b = 4i - 2j - 6k

- orthogonal
- parallel
- neither

(d) $\mathbf{a} = 4\mathbf{i} - \mathbf{j} + 4\mathbf{k}, \quad \mathbf{b} = 3\mathbf{i} + 4\mathbf{j} - 2\mathbf{k}$

- orthogonal
- parallel
- neither

Need Help? Read It

Find a unit vector that is orthogonal to both $\mathbf{i} + \mathbf{j}$ and $\mathbf{i} + \mathbf{k}$. $\$\$1\sqrt{3}\cdot(\mathbf{i}-\mathbf{j}-\mathbf{k})$ Need Help? Read It Watch It
If $\mathbf{a} = \langle 2, -1, 4 \rangle$ and $\mathbf{b} = \langle 3, 2, 1 \rangle$, find the following. $\mathbf{a} \times \mathbf{b} = \$\$-9\mathbf{i}+10\mathbf{j}+7\mathbf{k}$ $\mathbf{b} \times \mathbf{a} = \$\$9\mathbf{i}-10\mathbf{j}-7\mathbf{k}$ Need Help? Read It
Find the area of the parallelogram with vertices $A(-3, 0)$, $B(-1, 4)$, $C(6, 3)$, and $D(4, -1)$. \$\$30 Need Help? Read It
Find the volume of the parallelepiped determined by the vectors \mathbf{a} , \mathbf{b} , and \mathbf{c} . $\mathbf{a} = 4\mathbf{i} + 3\mathbf{j} - 4\mathbf{k}, \mathbf{b} = 2\mathbf{i} - 2\mathbf{j} + 4\mathbf{k}, \mathbf{c} = -4\mathbf{i} + 4\mathbf{j} + 3\mathbf{k}$ 154 cubic units

Need Help?

Read It

View Next Question

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