Hw 2 (12.2): Vectors 1/22/12 1:34 AM

WebAssign Hw 2 (12.2): Vectors (Homework) Yinglai Wang

MA 162 Spring 2012, section 321, Spring 2012

Instructor: Jonathan Montano

Current Score: 20 / 20 Due: Tuesday, January 17 2012 11:55 PM EST

The due date for this assignment is past. 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 Kev

1. 2.5/2.5 points | Previous Answers

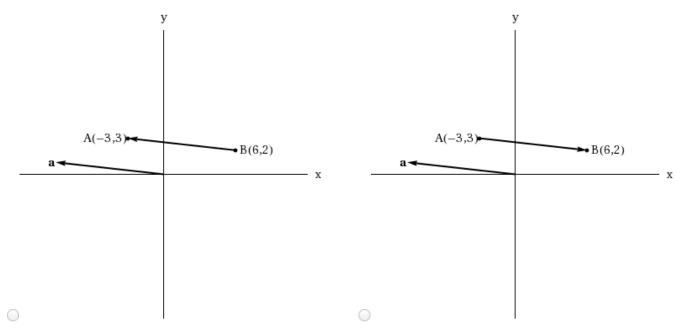
SCalcET7 12.2.011.MI.

Find a vector \mathbf{a} with representation given by the directed line segment \overrightarrow{AB} .

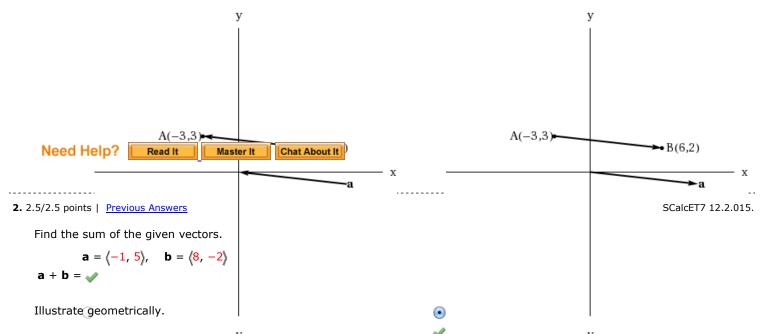
$$A(-3, 3), B(6, 2)$$

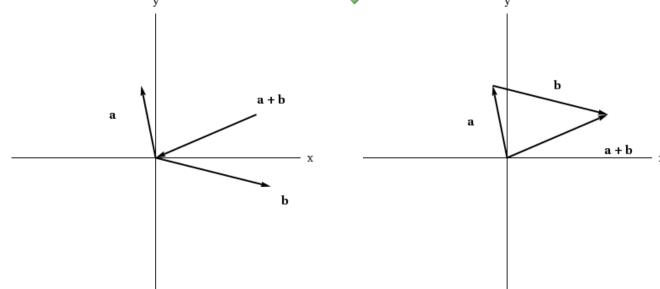


Draw \overrightarrow{AB} and the equivalent representation starting at the origin.

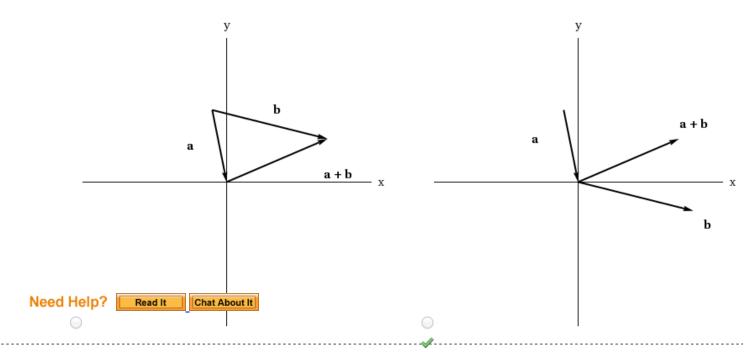


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3. 2.5/2.5 points | Previous Answers

SCalcET7 12.2.019.

Find
$$\mathbf{a} + \mathbf{b}$$
, $2\mathbf{a} + 3\mathbf{b}$, $|\mathbf{a}|$, and $|\mathbf{a} - \mathbf{b}|$.

$$\mathbf{a} = \langle 3, -4 \rangle, \quad \mathbf{b} = \langle -3, 4 \rangle$$

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4. 2.5/2.5 points | Previous Answers

SCalcET7 12.2.021.

Find
$$\mathbf{a} + \mathbf{b}$$
, $2\mathbf{a} + 3\mathbf{b}$, $|\mathbf{a}|$, and $|\mathbf{a} - \mathbf{b}|$.

$$a = i + 4j - 2k$$
, $b = -5i - j + 7k$

$$2a + 3b = \checkmark$$

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5. 2.5/2.5 points | Previous Answers

SCalcET7 12.2.023.MI.

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

$$-5i + 9j$$



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



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7. 2.5/2.5 points | Previous Answers

SCalcET7 12.2.026.

Find a vector that has the same direction as $\langle -6, 4, 2 \rangle$ but has length 6.



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8. 2.5/2.5 points | Previous Answers

SCalcET7 12.2.035.

A woman walks due west on the deck of a ship at 4 mi/h. The ship is moving north at a speed of 25 mi/h. Find the speed and direction of the woman relative to the surface of the water. (Round your answers to one decimal place.)



direction



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