



Exit Ticket W7 - Vector Geometry

Name:

Date:

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$\mathbf{a} = \begin{pmatrix} 5 \\ -2 \end{pmatrix}$ and $\mathbf{b} = \begin{pmatrix} -2 \\ 3 \end{pmatrix}$

Which vector below represents $\mathbf{a} - \mathbf{b}$?

A $\begin{pmatrix} -3 \\ -5 \end{pmatrix}$
 B $\begin{pmatrix} 7 \\ 1 \end{pmatrix}$
 C $\begin{pmatrix} 3 \\ 1 \end{pmatrix}$
 D $\begin{pmatrix} 7 \\ -5 \end{pmatrix}$

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Correct Answer: A B C D

Explanation:

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M1 - Vectors

Write \vec{EC} in terms of \mathbf{a} and \mathbf{b}

A $\mathbf{a} + 2\mathbf{b}$
 B $2\mathbf{b} - \mathbf{a}$
C $2\mathbf{a} - \mathbf{b}$
 D $2\mathbf{a} + \mathbf{b}$

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Correct Answer: A B C D

Explanation:

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\mathbf{a} and \mathbf{b} are non-parallel, non-identical vectors, of different lengths

What is the relationship between these two vectors?

$\mathbf{a} - \mathbf{b}$ $\mathbf{b} - \mathbf{a}$

A They are parallel to each other and in the same direction
B They are parallel to each other and in the opposite direction
C They are exactly the same vector
D They are perpendicular to each other

Correct Answer: A B C D

Explanation:

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