<u>Help</u>

sandipan_dey ~

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* Course / Review / Practice exam (untimed, with solutions).

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10(a)

1/1 point (ungraded)

Find the value $oldsymbol{c}$ such that the parallelogram spanned by the vectors

$$\begin{pmatrix} 1 \\ c \end{pmatrix}, \quad \begin{pmatrix} 2 \\ 5 \end{pmatrix}$$

has area 7.

$$c = \boxed{ -1 }$$
 \checkmark Answer: -1

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Solution:

The area is the determinant

$$egin{bmatrix} 1 & 2 \ c & 5 \end{bmatrix} = 5 - 2c = 7$$

Therefore c = -1.

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1 Answers are displayed within the problem

10(b)

1/1 point (ungraded)

Find the value c such that the system of equations infinitely many solution.

$$egin{pmatrix} 1 & 2 \ c & 5 \end{pmatrix} ec{x} = egin{pmatrix} 0 \ 0 \end{pmatrix}$$

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Solution:

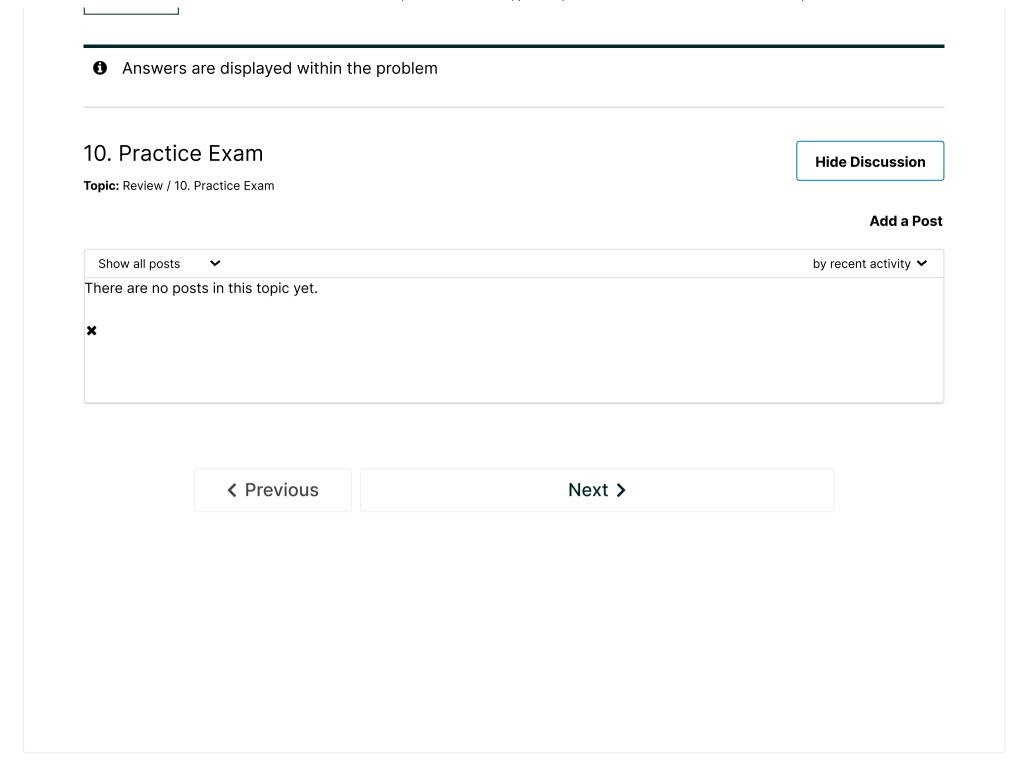
There will be infinitely many solution if the determinant is zero

$$egin{array}{c|c} 1 & 2 \ c & 5 \end{array} = 5 - 2c = 0$$

Therefore c=2.5.

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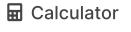
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