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4. Practice Exam

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Let ℓ be the line segment from $(0,3)$ to $(2,2)$. Find a unit vector perpendicular to ℓ.

[1/sqrt(5),2/sqrt(5)] ✔ **Answer:** [1/sqrt(5),2/sqrt(5)]

? INPUT HELP

Solution:

A vector parallel to ℓ would be $(2,2)-(0,3)=(2,-1)$. Hence a vector perpendicular to ℓ would be $(1,2)$.

Hence a unit vector perpendicular to ℓ could be $\boxed{\frac{1}{\sqrt{5}}(1,2)}$ or $\boxed{-\frac{1}{\sqrt{5}}(1,2)}$.

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Answers are displayed within the problem

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