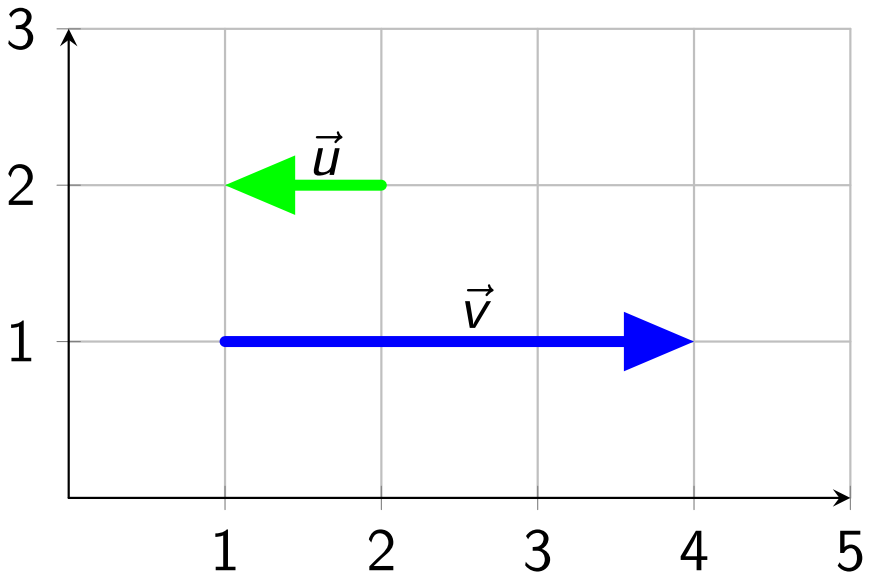
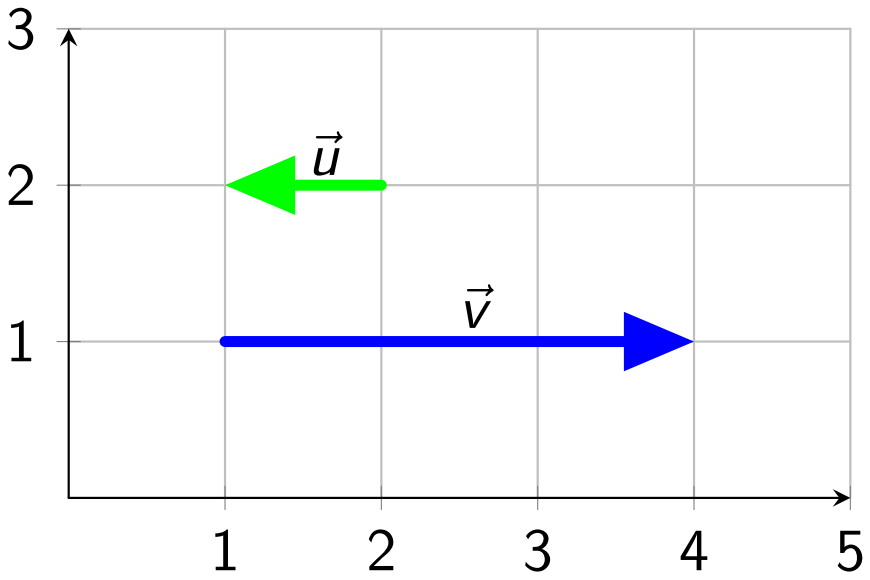
1 Spé - Produit Scalaire



Question

Déterminer la valeur de $\vec{u} \cdot \vec{v}$?

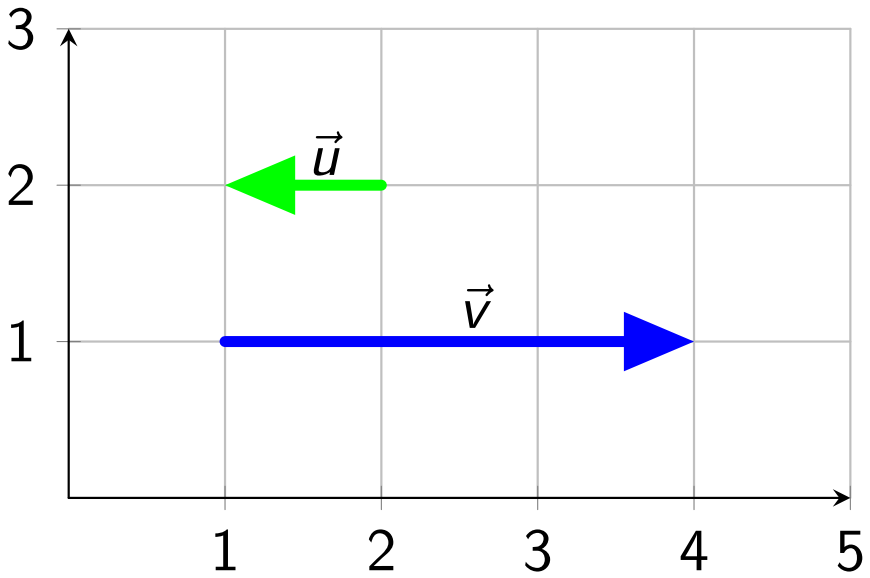


Question

Déterminer la valeur de $\vec{u} \cdot \vec{v}$?

Réponse

$\vec{u} \cdot \vec{v} = \|\vec{u}\| \times \|\vec{v}\| \times \cos(\vec{u}; \vec{v})$



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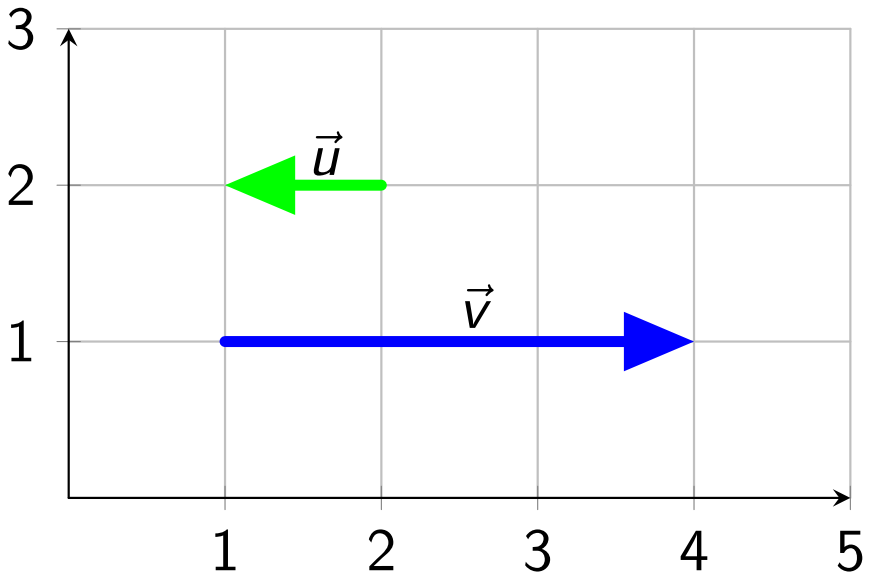
$\vec{u} \cdot \vec{v} = \|\vec{u}\| \times \|\vec{v}\| \times \cos(\vec{u}; \vec{v})$

$\vec{u} \cdot \vec{v} = 3 \times 1 \times \cos(180°)$



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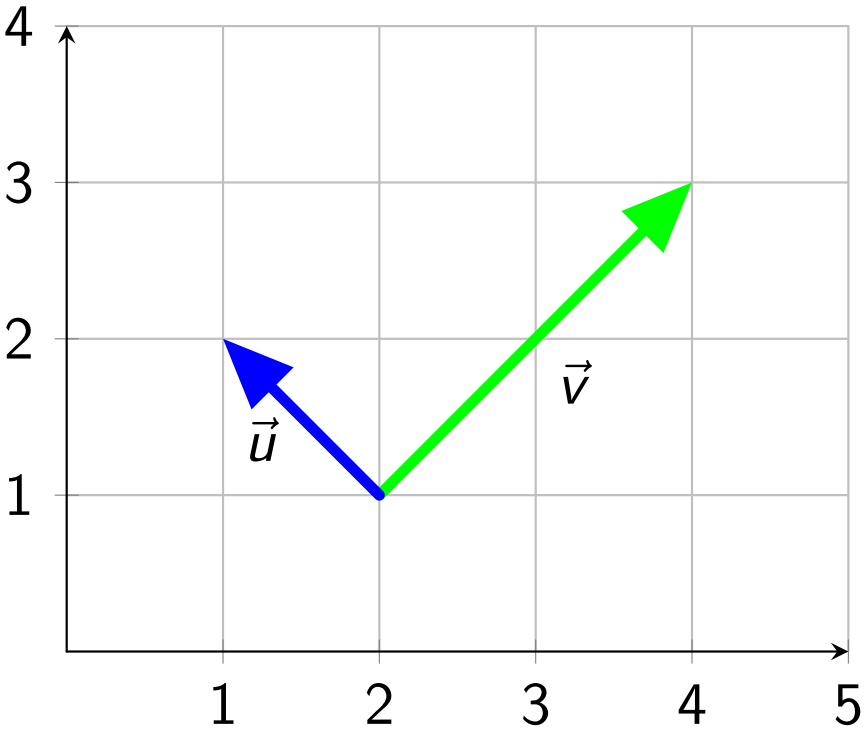
$\vec{u} \cdot \vec{v} = 3 \times 1 \times \cos(180°)$

$\vec{u} \cdot \vec{v} = -3$



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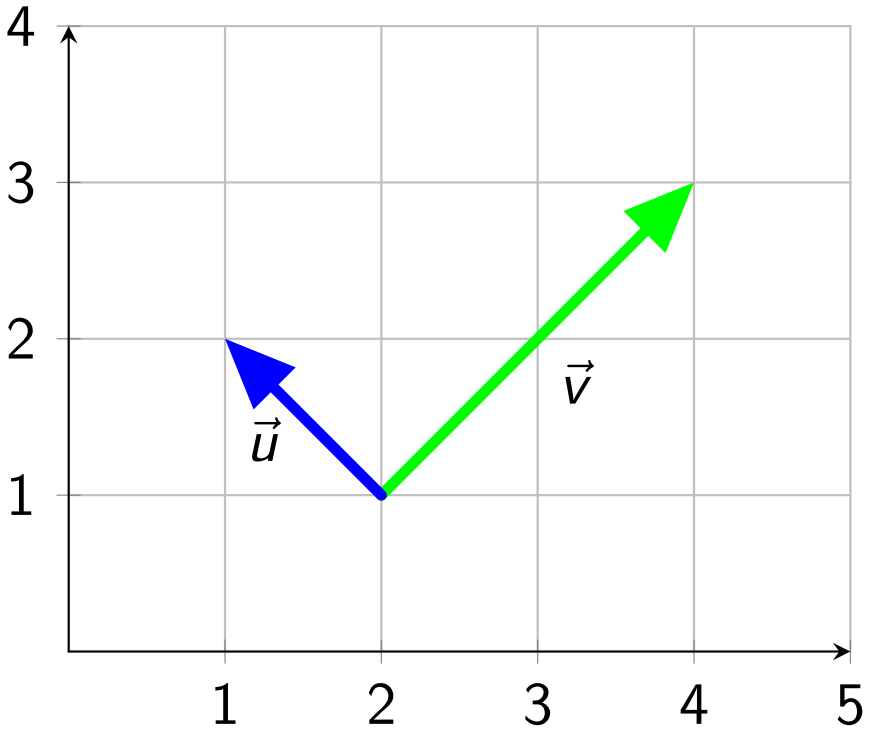

Question

Déterminer la valeur de $\vec{u} \cdot \vec{v}$?

Réponse

$\vec{u} \perp \vec{v}$ donc $\vec{u} \cdot \vec{v} = 0$