

## MATH 2E Prep: Product of Vectors

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1. Compute  $\vec{u} \cdot \vec{v}$ , where  $\vec{u} = \langle 1, 0, -2 \rangle$ ,  $\vec{v} = \langle x, y, z \rangle$
2.  $\vec{u} = \langle 1, 0, -2 \rangle$ ,  $\vec{v} = \langle 3, 4, 0 \rangle$ , compute  $\vec{u} \times \vec{v}$
3. Use the following figure to find  $|\vec{a} \times \vec{b}|$ , and determine whether  $\vec{a} \times \vec{b}$  is directed into the page or out of the page.

