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Find each inner product and state whether the vectors are perpendicular. Write *yes* or *no*.

14. $\langle 7, 2 \rangle \cdot \langle 0, -2 \rangle$ **-4, no** 15. $\langle 8, 4 \rangle \cdot \langle 2, 4 \rangle$ **32, no** 16. $\langle 4, 9, -3 \rangle \cdot \langle -6, 7, 5 \rangle$ **24, no**
17. $\langle 3, 1, 4 \rangle \cdot \langle 2, 8, -2 \rangle$ **6, no**

Find each cross product. Then verify that the resulting vector is perpendicular to the given vectors.

23. $\langle 3, 2, 0 \rangle \times \langle 1, 4, 0 \rangle$ **$\langle 0, 0, 10 \rangle$** 24. $\langle 1, -3, 2 \rangle \times \langle 5, 1, -2 \rangle$ **$\langle 4, 12, 16 \rangle$**