

Trig Review Ch. 8

Quiz 8.3-8.4

perpendicular. Write yes or no.

a.  $(-5, 3) \cdot (2, -3)$

b.  $(4, 5, 1) \cdot (-1, -2, 3)$

$$\langle -5, 3 \rangle \cdot \langle 2, -3 \rangle$$

$$-10 + -9 = -19$$

$$\langle 4, 5, 1 \rangle \cdot \langle -1, -2, 3 \rangle$$

$$-4 + -10 + 3 = -14$$

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$$\langle 3, 5, 1 \rangle \cdot \langle -1, 2, 0 \rangle$$

$\vec{i}$	$\vec{j}$	$\vec{k}$
3	5	1
-1	2	0

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1. Write the ordered pair that represents  $\overline{CD}$ .  
Then find the magnitude of  $\overline{CD}$ .

19.  $C(2, 3), D(7, 15)$

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2. Find an ordered triple to represent  $\vec{u}$  in each equation if  $\vec{v} = \langle -1, 7, -4 \rangle$  and  $\vec{w} = \langle 4, -1, 5 \rangle$ .

31.  $\vec{u} = 2\vec{w} - 5\vec{v}$       32.  $\vec{u} = 0.25\vec{v} + 0.4\vec{w}$

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

33.  $\langle 5, -1 \rangle \cdot \langle -2, 6 \rangle$

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

38.  $\langle 5, -2, 5 \rangle \times \langle -1, 0, -3 \rangle$

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