

# DOT AND CROSS PRODUCT.

For problem 1-5 find the vector component of 'v' along 'b' and the vector component of v orthogonal to b.

1.  $v = 2i - j$ ,  $b = 3i + 4j$

**Solution:**

Vector component of v along b

$$= \frac{v \cdot b}{\|b\|}$$

$$\|b\| = \left( \sqrt{(3)^2 + (4)^2} \right) = \sqrt{9+16}$$

$$\|b\| = 5$$

so,

$$= \frac{[(2i - j) \cdot (3i + 4j)] (3i + 4j)}{\|b\|^2}$$

$$= \frac{(6 - 4)(3i + 4j)}{25}$$

$$= \frac{(2)(3i + 4j)}{25}$$

$$= \frac{6i + 8j}{25}$$

$$\langle 6, 8 \rangle \Rightarrow \left\langle \frac{6i}{25} + \frac{8j}{25} \right\rangle$$

Vector component of v orthogonal to b

$$= v - \text{Proj}_b v$$

$$= (2i - j) - \left( \frac{6i}{25} + \frac{8j}{25} \right)$$

$$= \frac{50i}{25} - \frac{6i}{25} + \left( \frac{-25j}{25} + \frac{8j}{25} \right)$$

$$= \left( \frac{50i - 6i}{25} \right) + \left( \frac{-25j + 8j}{25} \right)$$

$$\left\langle \frac{44i}{25} - \frac{33j}{25} \right\rangle$$

**Answer!**

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**AW Chickering**



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