



$$v = [3, 4]$$

$$\|v\| = \sqrt{3^2 + 4^2} = \sqrt{9 + 16} = \sqrt{25} = 5$$

$$v - \text{Proj}_u v = \begin{bmatrix} 3 \\ 4 \end{bmatrix} - \begin{bmatrix} 9/5 \\ 12/5 \end{bmatrix} = \begin{bmatrix} 6/5 \\ 8/5 \end{bmatrix}$$

$$\|v - \text{Proj}_u v\| = \sqrt{\left(\frac{6}{5}\right)^2 + \left(\frac{8}{5}\right)^2} = \sqrt{\frac{36}{25} + \frac{64}{25}} = \sqrt{\frac{100}{25}} = 2$$



$$\text{Proj}_u v = \left( \frac{u \cdot v}{u \cdot u} \right) u$$

$$= \left( \frac{\begin{bmatrix} 3 \\ 0 \end{bmatrix} \cdot \begin{bmatrix} 3 \\ 3 \end{bmatrix}}{\begin{bmatrix} 3 \\ 0 \end{bmatrix} \cdot \begin{bmatrix} 3 \\ 0 \end{bmatrix}} \right) \begin{bmatrix} 3 \\ 0 \end{bmatrix} = \frac{9}{9} \begin{bmatrix} 3 \\ 0 \end{bmatrix} = \begin{bmatrix} 3 \\ 0 \end{bmatrix}$$

$$\sqrt{\begin{bmatrix} 3/5 \\ 4/5 \end{bmatrix} \cdot \begin{bmatrix} 3/5 \\ 4/5 \end{bmatrix}} = \sqrt{\frac{9}{25} + \frac{16}{25}} = \sqrt{\frac{25}{25}} = 1$$

$$\vec{A} = (A_1, A_2) = (2, 1)$$

$$\vec{B} = (B_1, B_2) = (5, 4)$$

$$\vec{AB} = [B_1 - A_1, B_2 - A_2] = [5 - 2, 4 - 1] = [3, 3]$$

$$\angle = 100^\circ$$

$$\cos \theta = \frac{c \cdot d}{\|c\| \|d\|}$$

$$\frac{0}{\|c\| \|d\|} = \cos \theta = 0 \Rightarrow \theta = 90^\circ$$

- $\vec{a} \cdot \vec{a} = [3, 0] \cdot [3, 0] = 9 + 0 = 9$
- $\vec{a} \cdot \vec{b} = [3, 0] \cdot [5, 4] = 15 + 0 = 15$
- $\vec{b} \cdot \vec{b} = [5, 4] \cdot [5, 4] = 25 + 16 = 41$
- $\vec{c} \cdot \vec{c} = [3, 3] \cdot [3, 3] = 9 + 9 = 18$

x	f(x)
-2	-4
-1	-2
0	0
1	2
2	4

$(x, f(x))$

$$-\left( \frac{21 + 40}{44 + 0} \right) \begin{bmatrix} 7 \\ 0 \end{bmatrix} = \frac{61}{44} \begin{bmatrix} 7 \\ 0 \end{bmatrix} = \begin{bmatrix} 427/44 \\ 0 \end{bmatrix}$$



$$\text{Proj}_u v = y \rightarrow f(x) \rightarrow f(y)$$

Domain =  $\mathbb{R}$   
Range =  $y \mid 0 \leq y$



# Linear Algebra In Engineering

**Daniel Norman, Dan Wolczuk**



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