



$$v = [3, 4]$$

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

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

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



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

$$= \frac{\begin{bmatrix} 3 \\ 0 \end{bmatrix} \cdot \begin{bmatrix} 3 \\ 3 \end{bmatrix}}{\begin{bmatrix} 3 \\ 0 \end{bmatrix} \cdot \begin{bmatrix} 3 \\ 0 \end{bmatrix}} \begin{bmatrix} 3 \\ 3 \end{bmatrix} = \frac{9}{9} \begin{bmatrix} 3 \\ 3 \end{bmatrix} = \begin{bmatrix} 3 \\ 3 \end{bmatrix}$$

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

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

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

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

$$\angle = 100^\circ$$

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

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

- $\vec{a} \cdot \vec{a} = [3, 3] \cdot [3, 3] = 9 + 9 = 18$
- $\vec{a} \cdot \vec{b} = [3, 3] \cdot [5, 4] = 15 + 12 = 27$
- $\vec{b} \cdot \vec{b} = [5, 4] \cdot [5, 4] = 25 + 16 = 41$
- $\vec{c} \cdot \vec{c} = [3, 3] \cdot [3, 3] = 18$

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

(x, f(x))

$$= \frac{(2, 4) \cdot (7, 0)}{(4, 0) \cdot (4, 0)} \begin{bmatrix} 7 \\ 0 \end{bmatrix} = \frac{14}{16} \begin{bmatrix} 7 \\ 0 \end{bmatrix} = \frac{7}{4} \begin{bmatrix} 7 \\ 0 \end{bmatrix} = \begin{bmatrix} 49/4 \\ 0 \end{bmatrix}$$



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

Domain = R
Range = y | 0 ≤ y



Linear Algebra In Engineering

Marcel A. Müller



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