



$$v = [3, 4]$$

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

$$v - \text{Proj}_u v = \begin{bmatrix} 3 \\ 4 \end{bmatrix} - \begin{bmatrix} 9/5 \\ 12/5 \end{bmatrix} = \begin{bmatrix} 6/5 \\ 14/5 \end{bmatrix}$$

$$\|v - \text{Proj}_u v\| = \sqrt{\left(\frac{6}{5}\right)^2 + \left(\frac{14}{5}\right)^2} = \sqrt{\frac{36}{25} + \frac{196}{25}} = \sqrt{\frac{232}{25}} = \frac{\sqrt{232}}{5}$$



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

$$= \left( \frac{\begin{bmatrix} 3 \\ 0 \end{bmatrix} \cdot \begin{bmatrix} 3 \\ 4 \end{bmatrix}}{\begin{bmatrix} 3 \\ 0 \end{bmatrix} \cdot \begin{bmatrix} 3 \\ 0 \end{bmatrix}} \right) \begin{bmatrix} 3 \\ 0 \end{bmatrix} = \frac{9}{9} \begin{bmatrix} 3 \\ 0 \end{bmatrix} = \begin{bmatrix} 3 \\ 0 \end{bmatrix}$$

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

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

$$\vec{B} = (B_1, B_2) = (5, 1)$$

$$\vec{AB} = [B_1 - A_1, B_2 - A_2] = [5 - 2, 1 - 1] = [3, 0]$$

$$\angle = 180^\circ$$

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

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

- $\vec{a} \cdot \vec{a} = [3, 0] \cdot [3, 0] = 9 + 0 = 9$
- $\vec{a} \cdot \vec{b} = [3, 0] \cdot [5, 1] = 15 + 0 = 15$
- $\vec{b} \cdot \vec{b} = [5, 1] \cdot [5, 1] = 25 + 1 = 26$

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

(x, f(x))

$$-\left( \frac{21 + 40}{49 + 0} \right) \begin{bmatrix} 7 \\ 0 \end{bmatrix}$$

$$= \frac{2}{7} \begin{bmatrix} 7 \\ 0 \end{bmatrix} = \begin{bmatrix} 2 \\ 0 \end{bmatrix}$$



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

Domain = R  
Range = y | 0 ≤ y



# Linear Algebra In Engineering

**CO Houle**



## **Linear Algebra In Engineering:**

## **Linear Algebra In Engineering** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Linear Algebra In Engineering**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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