



$$v = [3, 4]$$

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

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

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



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

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

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

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

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

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

$$\angle = 100^\circ$$

$$\text{Proj}_d v = \frac{(d \cdot v)}{(d \cdot d)} d = \frac{\begin{bmatrix} 7 \\ 1 \\ 0 \end{bmatrix} \cdot \begin{bmatrix} 3 \\ 4 \end{bmatrix}}{\begin{bmatrix} 7 \\ 1 \\ 0 \end{bmatrix} \cdot \begin{bmatrix} 7 \\ 1 \\ 0 \end{bmatrix}} \begin{bmatrix} 7 \\ 1 \\ 0 \end{bmatrix} = \frac{21 + 4}{50} \begin{bmatrix} 7 \\ 1 \\ 0 \end{bmatrix} = \frac{25}{50} \begin{bmatrix} 7 \\ 1 \\ 0 \end{bmatrix} = \frac{1}{2} \begin{bmatrix} 7 \\ 1 \\ 0 \end{bmatrix}$$

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

(x, f(x))

$$= \frac{(2, 4) \cdot \begin{bmatrix} 7 \\ 0 \end{bmatrix}}{(4, 0) \cdot \begin{bmatrix} 7 \\ 0 \end{bmatrix}} \begin{bmatrix} 7 \\ 0 \end{bmatrix} = \frac{14}{28} \begin{bmatrix} 7 \\ 0 \end{bmatrix} = \frac{1}{2} \begin{bmatrix} 7 \\ 0 \end{bmatrix} = \begin{bmatrix} 3.5 \\ 0 \end{bmatrix}$$

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

$$= \frac{0}{\sqrt{2} \sqrt{2}} = \cos \theta = 0 \Rightarrow \theta = 90^\circ$$

$$\vec{a} \cdot \vec{b} = [3, 4] \cdot [7, 0] = 21 + 0 = 21$$

$$\|\vec{a}\| \cdot \|\vec{b}\| = \sqrt{3^2 + 4^2} \cdot \sqrt{7^2 + 0^2} = 5 \cdot 7 = 35$$

$$\cos \theta = \frac{21}{35} = \frac{3}{5}$$



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

Domain = R
Range = y | 0 ≤ y



Linear Algebra In Engineering

J Elliott



Linear Algebra In Engineering:

Unveiling the Magic of Words: A Review of "**Linear Algebra In Engineering**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Linear Algebra In Engineering**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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