



$$v = [3, 4]$$

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

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

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



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

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

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

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

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

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

$$\angle = 100^\circ$$

$$\text{Proj}_d v = \left(\frac{d \cdot v}{d \cdot d} \right) d = \left(\frac{\begin{bmatrix} 7 \\ 1 \\ 0 \end{bmatrix} \cdot \begin{bmatrix} 3 \\ 4 \end{bmatrix}}{\begin{bmatrix} 7 \\ 1 \\ 0 \end{bmatrix} \cdot \begin{bmatrix} 7 \\ 1 \\ 0 \end{bmatrix}} \right) \begin{bmatrix} 7 \\ 1 \\ 0 \end{bmatrix} = \left(\frac{21 + 4}{49 + 1} \right) \begin{bmatrix} 7 \\ 1 \\ 0 \end{bmatrix} = \left(\frac{25}{50} \right) \begin{bmatrix} 7 \\ 1 \\ 0 \end{bmatrix} = \begin{bmatrix} 7/2 \\ 1/2 \\ 0 \end{bmatrix}$$

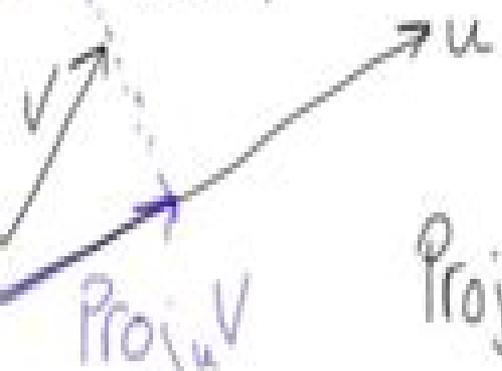
x	f(x)
-2	-4
-1	-2
0	0
1	2
2	4

(x, f(x))

$$\left(\frac{21 + 4}{49 + 1} \right) \begin{bmatrix} 7 \\ 0 \end{bmatrix} = \frac{25}{50} \begin{bmatrix} 7 \\ 0 \end{bmatrix} = \begin{bmatrix} 7/2 \\ 0 \end{bmatrix}$$

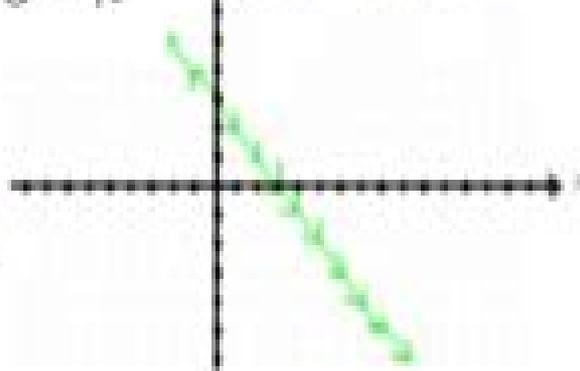
$$\cos \theta = \frac{c \cdot d}{\|c\| \|d\|} = \frac{0}{\|c\| \|d\|} = \cos \theta = 0 \Rightarrow \theta = 90^\circ$$

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



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

Domain = R
Range = y | 0 ≤ y



Linear Algebra In Engineering

RM Cervero



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