



$$v = [3, 4]$$

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

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

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



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

$$= \left(\frac{\begin{bmatrix} 3 \\ 4 \end{bmatrix} \cdot \begin{bmatrix} 3 \\ 3 \end{bmatrix}}{\begin{bmatrix} 3 \\ 3 \end{bmatrix} \cdot \begin{bmatrix} 3 \\ 3 \end{bmatrix}} \right) \begin{bmatrix} 3 \\ 3 \end{bmatrix} = \left(\frac{17}{18} \right) \begin{bmatrix} 3 \\ 3 \end{bmatrix} = \begin{bmatrix} 17/6 \\ 17/6 \end{bmatrix}$$

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

$$A = (A_1, A_2) = (2, 1)$$

$$B = (B_1, B_2) = (5, 4)$$

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

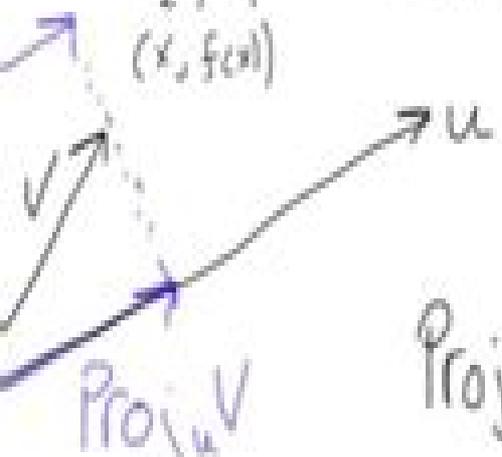
$$\cos \theta = \frac{c \cdot d}{\|c\| \|d\|} = \frac{0}{\sqrt{10} \sqrt{10}} = 0 \Rightarrow \theta = 90^\circ$$

- $\vec{a} \cdot \vec{b} = [3, 4] \cdot [3, 3] = 9 + 12 = 21$
- $\|\vec{a}\| = \sqrt{3^2 + 4^2} = 5$
- $\|\vec{b}\| = \sqrt{3^2 + 3^2} = \sqrt{18} = 3\sqrt{2}$
- $\cos \theta = \frac{21}{5 \cdot 3\sqrt{2}} = \frac{7}{5\sqrt{2}}$

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

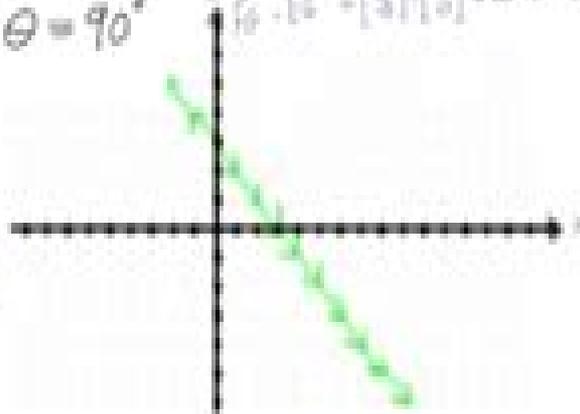
(x, f(x))

$$\left(\frac{21}{18} \right) \begin{bmatrix} 3 \\ 3 \end{bmatrix} = \frac{7}{6} \begin{bmatrix} 3 \\ 3 \end{bmatrix} = \begin{bmatrix} 7/2 \\ 7/2 \end{bmatrix}$$



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

Domain = R
Range = y | 0 ≤ y



Linear Algebra In Engineering

**Deolinda M. L. D. Rasteiro, Fatih
Yilmaz, Araceli Queiruga-Dios, Jesús
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