

Vector Projection

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10:32 PM

$$Ex \rightarrow U = (5, 5)$$

$$v = (7, 0)$$

$$\text{Proj}_v \vec{U} = \frac{\vec{U} \cdot \vec{v}}{|\vec{v}|^2} \times \vec{v}$$

$$= \frac{35}{49} (7, 0)$$

$$= (5, 0)$$