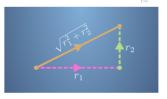
## Dot product of vectors







```
We can do projection in \begin{bmatrix} 3 \\ -4 \\ 0 \end{bmatrix} \text{ and } \mathbf{s} = \begin{bmatrix} 10 \\ 5 \\ -6 \end{bmatrix}
```



Let 
$$\mathbf{r}=\begin{bmatrix}3\\-4\\0\end{bmatrix}$$
 and let  $\mathbf{s}=\begin{bmatrix}10\\5\\-6\end{bmatrix}$  . What is the vector projection of  $\mathbf{s}$  onto



