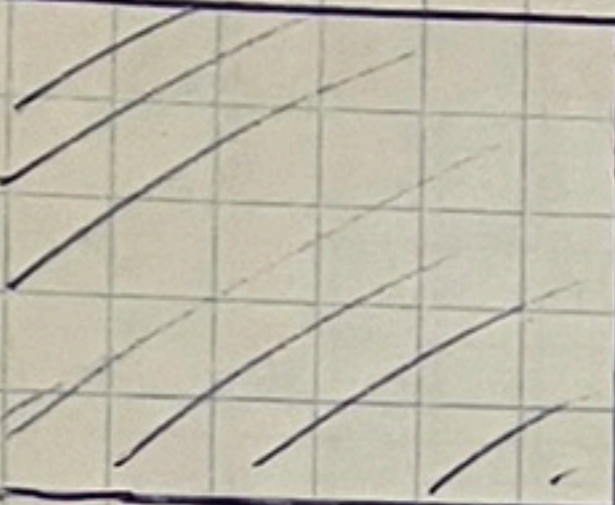
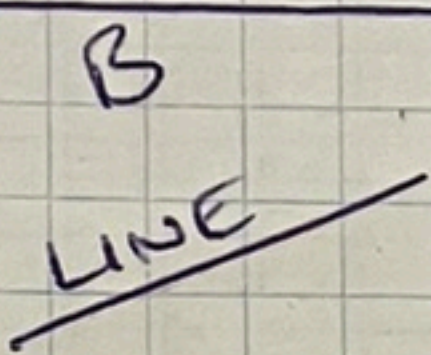
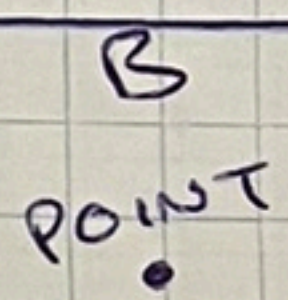


11 APRIL 2024 UN

Why would you ever want to combine planes, lines and points using the geometric product (AB), the meet ($A \wedge B$), the dot ($A \cdot B$) and the join ($A \vee B$)? Here are some ideas:

	<div>  </div> <div> B <div>PLANE</div> </div>	<div>  </div> <div> B <div>LINE</div> </div>	<div>  </div> <div> B <div>POINT</div> </div>
<div> A <div>PLANE</div> </div>	$A \wedge B = \text{LINE}$ INTERSECTION $\hat{A} \cdot \hat{B} = \cos \theta$	$A \wedge B = \text{POINT}$ INTERSECTION $A \cdot B = \text{PLANE}$ \perp TO PLANE OVERLAPS LINE $\frac{A \cdot B}{B} = \text{PROJECT PLANE ONTO LINE}$	$A \cdot B = \text{LINE}$ \perp TO PLANE OVERLAPS POINT $\frac{A \cdot B}{B} = \text{PROJECT PLANE ONTO POINT}$
<div> A <div>LINE</div> </div>	$A \wedge B = \text{POINT}$ INTERSECTION $A \cdot B = \text{PLANE}$ \perp TO PLANE OVERLAPS LINE $\frac{A \cdot B}{B} = \text{PROJECT LINE ONTO PLANE}$	$\hat{A} \cdot \hat{B} = \cos \theta$	$A \vee B = \text{PLANE}$ JOINING $A \cdot B = \text{PLANE}$ \perp TO LINE OVERLAPS POINT $\frac{A \cdot B}{B} = \text{PROJECT LINE ONTO POINT}$
<div> A <div>POINT</div> </div>	$A \cdot B = \text{LINE}$ \perp TO PLANE OVERLAPS POINT $\frac{A \cdot B}{B} = \text{PROJECT PLANE POINT ONTO PLANE}$	$A \vee B = \text{PLANE}$ JOINING $A \cdot B = \text{PLANE}$ \perp TO LINE OVERLAPS POINT $\frac{A \cdot B}{B} = \text{PROJECT POINT ONTO LINE}$	$A \vee B = \text{LINE}$ JOINING