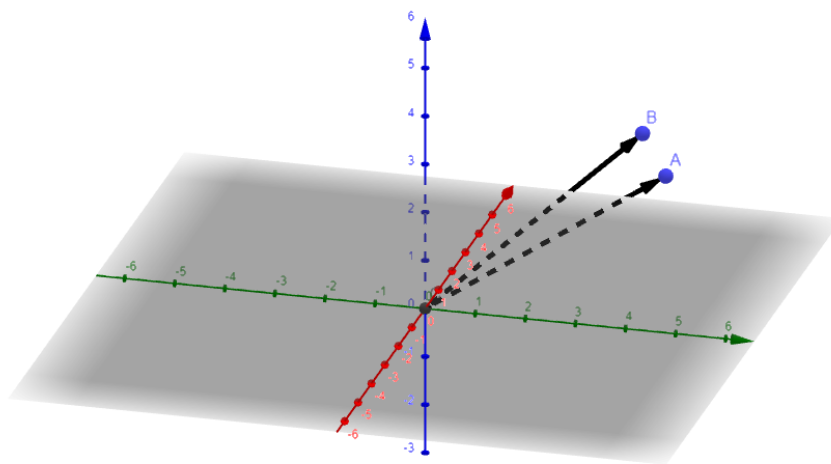


●	$A = (3, 4, 2)$	≡
●	$B = (5, 3, 2)$	⋮
●	$C = \text{Interseca}(\text{EjeX}, \text{EjeZ})$	⋮
	$\rightarrow (0, 0, 0)$	
●	$u = \text{Vector}(C, A)$	⋮
	$\rightarrow \begin{pmatrix} 3 \\ 4 \\ 2 \end{pmatrix}$	
●	$v = \text{Vector}(C, B)$	⋮
	$\rightarrow \begin{pmatrix} 5 \\ 3 \\ 2 \end{pmatrix}$	
+	Entrada...	



16/05/22 Actividad / Jim Díaz y Samuel Aroca

**Vector unitario:**

$$\vec{A} = (3, 4, 2) \quad ||\vec{A}|| = \sqrt{3^2 + 4^2 + 2^2} = \sqrt{29} \quad \text{Magnitud A}$$

$$\frac{\vec{A}}{||\vec{A}||} = \left( \frac{3}{\sqrt{29}}, \frac{4}{\sqrt{29}}, \frac{2}{\sqrt{29}} \right)$$

$$\vec{B} = (5, 3, 2) \quad ||\vec{B}|| = \sqrt{5^2 + 3^2 + 2^2} = \sqrt{38} \quad \text{Magnitud B}$$

$$\frac{\vec{B}}{||\vec{B}||} = \left( \frac{5}{\sqrt{38}}, \frac{3}{\sqrt{38}}, \frac{2}{\sqrt{38}} \right)$$

**Producto punto**

$$\vec{A} \cdot \vec{B} = 15 + 12 + 4 = 31$$

**Ángulo entre vectores**

$$\cos^{-1} \frac{31}{\sqrt{29} \cdot \sqrt{38}} = 20,96^\circ$$