*EXERCICI DE PRODUCTE ESCALAR*

Formula 🡪$\cos(∝)= \frac{u·v}{\left|u\right|· \left|v\right|}$

**1.Troba el valor a angulo forma v(3,a) amb v(2,-1) és de 60º**

 $\frac{\left(3·2\right)+\left(a· -1\right)·0.5}{\sqrt{9+ a^{2}· \sqrt{5}}}= \frac{6+\left(-a\right)}{\sqrt{45+5a^{2}}}= \frac{6-a}{\sqrt{45+5a^{2}}}=0.5· \sqrt{45+5a^{2}=6-a}\rightarrow (\sqrt{45+5a}=(\frac{6-a}{0.5})^{2}\rightarrow 45+5a^{2}=\frac{6-a)^{2}}{0.5}\rightarrow \left(6·a \right)·(6·a)\rightarrow 45+ 5a^{2}= \frac{a^{2}-12a+36 }{0.25}\rightarrow 0.25 \left(45+ 5a^{2}\right)= a^{2}-12a+36\rightarrow 11.25+1.25a^{2}- a^{2}+12a-36 \rightarrow -24.75+12a+0.25a^{2}=0$

· $\sqrt{3^{2}+ a^{2}}= \sqrt{9+a}\rightarrow \sqrt{2^{2}3(-1)^{2}}= \sqrt{4+1}= \sqrt{5}$