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1) $\vec{u}\begin{pmatrix}12\\-9\\15\end{pmatrix}$ donc $\|\vec{u}\| = \sqrt{(12)^2+(-9)^2+(15)^2}$ $\|\vec{u}\| = 15\sqrt{2}$

(la calculatrice doit être en mode RESULTATS AUTO)

2) $\vec{u}\begin{pmatrix}\frac{1}{4}\\1\\\frac{1}{2}\\1\end{pmatrix}$ donc $\|\vec{v}\| = \sqrt{\left(\frac{1}{4}\right)^2+\left(\frac{1}{2}\right)^2+(1)^2}$ $\|\vec{u}\| = \frac{\sqrt{21}}{4}$

3) $\vec{u}\begin{pmatrix}3\sqrt{2}\\-5\sqrt{2}\\4\sqrt{2}\end{pmatrix}$ donc $\|\vec{v}\| = \sqrt{(3\sqrt{2})^2+(-5\sqrt{2})^2+(4\sqrt{2})^2}$ $\|\vec{u}\| = 10$