

Answer on Question #42417 – Math - Analytic Geometry

Question

Let $u = \langle -8, -9 \rangle$. Find $7u$.

how i'm going to find u am i going to multiply 7 by 8 or help please and show work please

Solution

For multiplication of a vector by a scalar you need to multiply each component of the vector by this scalar:

$$7 \cdot \langle -8, -9 \rangle = \langle 7 \cdot (-8), 7 \cdot (-9) \rangle = \langle -56, -63 \rangle$$

Answer: $\langle -56, -63 \rangle$