

Answer on Question#42439 – Math - Analytic Geometry

Question:

Let $u = \langle 3, -1 \rangle$, $v = \langle -6, -6 \rangle$. Find $9u + 2v$.

Solution:

$$9u + 2v = 9\langle 3, -1 \rangle + 2\langle -6, -6 \rangle = \langle 27, -9 \rangle + \langle -12, -12 \rangle = \langle 27 - 12, -9 - 12 \rangle = \langle 15, -21 \rangle$$

Answer: $9u + 2v = \langle 15, -21 \rangle$