Answer on Question #59886 – Math – Linear Algebra

Question

Let u= (2,3,-1) and v= (0,-2,3).

Determine
a. $u+v$= ;
b. -2u= .

Solution

a. $u+v=(2 \quad 3 \quad -1)+(0 \quad -2 \quad 3)=(2+0 \quad 3-2 \quad -1+3)=(2 \quad 1 \quad 2);$
b. $-2u=-2(2 \quad 3 \quad -1)=(-2\cdot 2 \quad -2\cdot 3 \quad -2\cdot(-1))=(-4 \quad -6 \quad 2).$

Answer: a. $u+v=(2 \quad 1 \quad 2);$

b. -2u= $(-4 \quad -6 \quad 2).$