(3) Dados $v = (-1, 2, 0)$, $w = (2, -3, -1)$ y $u = (1, -1, 1)$, verificar que:

$$\langle 2v + 3w, -u \rangle = -2\langle v, u \rangle - 3\langle w, u \rangle$$

```
                        <2v+3w, -u> = -2<v, u> - 3<w,u>
<2(-1,2,0) + 3(2,-3,-1), -(1,-1,1)> = -2<(-1,2,0), (1,-1,1)> - 3<(2,-3,-1),(1,-1,1)>
    <(-2,4,0)+(6,-9,-3), (-1,1,-1)> = -2((-1)1 + 2(-1) + 0*1) - 3(2*1 + (-3)(-1) + (-1)1)
<(-2+6, 4+(-9), 0+(-3)), (-1,1,-1)> = -2(-1 + (-2)) - 3(2 + 3 + (-1))
          <(4, -5, -3), (-1,1,-1)> = -2(-3) - 3(4)
          4(-1) + (-5)1 + (-3)(-1) = 6 - 12
                    -4 + (-5) + 3 = -6
                               -6 = -6
```