

Answer on Question#53924 – Math – Vector Calculus

1. Let  $\mathbf{u} = (5,6)$ ,  $\mathbf{v} = (-2, -6)$ . Find  $-2\mathbf{u} + 5\mathbf{v}$ .

**Solution.**

$$-2\mathbf{u} + 5\mathbf{v} = -2(5,6) + 5(-2, -6) = (-10, -12) + (-10, -30) = (-20, -42).$$

**Answer:**

hence,  $-2\mathbf{u} + 5\mathbf{v} = (-20, -42)$ .