

Answer on Question #46940 – Math – Vector Calculus

Question.

Solve the following $r_1=3i-2j+k$, $r_2=2i-4j-3k$, $r_3=-i+2j+2k$. Find r_2r_3

-16

16

15

-15

Solution.

$$r_1 = (3, -2, 1)$$

$$r_2 = (2, -4, -3)$$

$$r_3 = (-1, 2, 2)$$

$$r_2r_3 = 2 \cdot (-1) + (-4) \cdot 2 + (-3) \cdot 2 = -2 - 8 - 6 = -16$$

Answer: -16