

Question: If $F_1 = -6q$, $F_2 = 6q + 3$ and $F_3 = -7q + 1$, simplify, $F_1 \times F_2 - F_3$ in terms of q .

Answer:

$$\Rightarrow [(-6q)(6q+3)] - (-7q+1)$$

$$\Rightarrow [-36q^2 - 18q] + 7q - 1$$

$$\Rightarrow -36q^2 - 18q + 7q - 1$$

$$\Rightarrow -36q^2 - 11q - 1 \quad [\text{Ans}]$$

