Question 8: Let a = 2i + j - 2k and b = i + j. If c is a vector such that a . c = |c|, $|c - a| = 2\sqrt{2}$ and the angle between $(a \times b)$ and c is 30° , then $|(a \times b) \times c| = ____.$

a-c= |c| 1C-al=252 C-a/2 = 800 $c^{2} + a^{2} - 2\vec{a} \cdot \vec{c} = 8$ $c^2 + 9 - 2\vec{a} \cdot \vec{c} = 8$ $\frac{10^2 - 2101 + 1 = 0}{(101 - 1)^2 = 0}$ => | (1=) [axle)xcl= axle 1cl sin36 = [axu] (1) 1 1+1=1(2x1) X + 5/1 [(dxI) x2) = 3