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(Levi-cevita symbol) Proving that the divergence of a curl and the curl of a gradient are zero ~~Vector Calculus for Electromagnetism 14 : Product Rules for Grad Div Curl~~ ~~Calculus 3 - The Dot Product~~ Vector identities | Lecture 8 | Vector Calculus for Engineers *Detailed syllabus details discussion on multivariate calculus* ~~Divergence of the cross product of two vectors (proof) | Lecture 20 | Vector Calculus for Engineers~~ *Gradient, Divergence And Curl | Calculus | Chegg Tutors* ~~GATE MATHEMATICS LECTURE/ VECTOR ANALYSIS PART 1~~ Calculus 3: Divergence and Curl (12 of 32)

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## What is the Curl? Part 1

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Because  $a$  and  $b$  are orthogonal,  $a \cdot b = 0$ , and so  $a \cdot c = a \cdot (a \cdot c/a^2 + b \cdot c/b^2)$ . Similarly, Orthogonal Projection In the preceding example, the vector  $a$  is called the projection of  $c$  along  $a$ , and  $b$  is its projection along  $b$ . Let us formulate this idea more generally.

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Evaluate Now, multiply the components of vector with 6 and multiply the components of vector with 8 and then add these resultants as follows. The vectors and can be plotted as follows.

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$r = \sqrt{a^2 + R^2 - 2aR \cos(\theta - \phi)}$ , where  $\theta$  and  $\phi$  are the polar angles in x and y space, respectively. Second, our solution must be valid for all y in the circle; hence the distance of y from the origin must now become a variable, which we shall call r. Finally, note that  $d\mathbf{s} = R d\theta \mathbf{e}_\theta$ , so we can write the solution in polar coordinates as.

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Two vectors  $a = (a_1, a_2, a_3)$  and  $b = (b_1, b_2, b_3)$  are equal if and only if  $a_1 = b_1$ ,  $a_2 = b_2$ , and  $a_3 = b_3$ . Geometrically this means that  $a$  and  $b$  have the same

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direction and the same length (or "magnitude"). Geometrically, we define vector addition as follows.

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