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## Manual

Because  $a$  and  $b$  are orthogonal,  $a \cdot b = 0$ , and so  $a \cdot c = a \cdot (b \cdot c + b^\perp \cdot c) = a \cdot b \cdot c + a \cdot b^\perp \cdot c = 0 + a \cdot b^\perp \cdot c = b \cdot c$ . Similarly,  $b \cdot c = b \cdot (a \cdot c + a^\perp \cdot c) = b \cdot a \cdot c + b \cdot a^\perp \cdot c = 0 + b \cdot a^\perp \cdot c = a \cdot c$ . 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.

*Internet Supplement for Vector Calculus*

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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  $\theta$  in the circle; hence the distance of  $\theta$  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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*Vector Calculus | Jerrold E. Marsden, Anthony Tromba ...* Vector Calculus, sixth edition, by Jerrold E. Marsden and Anthony J. Tromba; published by W. H. Freeman, 2011. I have mixed feelings about this book - here are some notes and warnings: 1. If you have a previous edition than the sixth, the actual text isn't much different, so as far as reading the book goes, everything is fine.

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 Chegg.com For example if the x component is zero then  $(2, 3, 5) \cdot (0, y, z) = 3y + 5z$  is solved when  $y = 5k$  and  $z = 3k$  for any scalar  $k$ . In other words, the vectors  $a = (0, 5, 3)$  and  $b = (3, 2, 0)$  are orthogonal to each other. For a point in the plane  $2x + 3y + 5z = 30$ , set any two of  $x, y, z$  to zero.

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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  $a_1 = b_1, a_2 = b_2, \text{ and } a_3 = b_3$ .

Geometrically this means that  $a$  and  $b$  have the same direction and the same length (or "magnitude"). Geometrically, we define vector addition as follows.

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what you're doing enough to the point that you can check to see if you are doing it correctly or not...