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Student Study Guide with Solutions for Vector Calculus

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Glossary/Notation $\mathbf{x} \times \mathbf{y}$ = vector cross product. If $\mathbf{x}_1 = (x_1, y_1, z_1)$, $\mathbf{x}_2 = (x_2, y_2, z_2)$, then the cross product is computed as the symbolic determinant $\mathbf{x}_1 \times \mathbf{x}_2 = \det \begin{bmatrix} i & j & k \\ x_1 & y_1 & z_1 \\ x_2 & y_2 & z_2 \end{bmatrix}$. The cross product produces a vector perpendicular to both \mathbf{x}_1 and \mathbf{x}_2 .

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surface integrals, and theorems regarding vector calculus integrals (fundamental theorem of line

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operations, theorems, and characteristics of vector calculus. Mathematical Notation

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The vectors $a = (1, 2, 1)$, $b = (0, -2, 3)$ and $a + b = (1, 2, 1) + (0, -2, 3) = (1, 0, 4)$ are graphed below. Again note that the origin is at the tails of the vectors in the figure. Also, $-1(1, 2, 1) = (-1, -2, -1)$. This would be pictured by drawing the vector $(1, 2, 1)$ in the opposite direction.

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