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Student Study Guide with Solutions for Vector Calculus ...

STUDY GUIDE: VECTOR CALCULUS 1. Glossary/Notation \times = vector cross product. If $x_1 = (x_1, y_1, z_1)$, $x_2 = (x_2, y_2, z_2)$, then the cross product is computed as the symbolic determinant $x_1 \times x_2 = \det \begin{bmatrix} i & j & k \\ x_1 & y_1 & z_1 \\ x_2 & y_2 & z_2 \end{bmatrix}$. The cross product produces a vector perpendicular to both x_1 and x_2 .

STUDY GUIDE: VECTOR CALCULUS

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surface integrals, and theorems regarding vector calculus integrals (fundamental theorem of line integrals, Green's theorem, Stokes' theorem, and divergence theorem). These are covered in Chapters 12-17 of the textbook. CALCULATORS: A graphing calculator is useful as a study and learning tool when used appropriately, but it is not essential.

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

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