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a vector is a quantity that has both direction and magnitude let a vector be denoted by the symbol  $\overrightarrow{\mathbf{a}}$  the magnitude of  $\overrightarrow{\mathbf{a}}$  is  $|\overrightarrow{\mathbf{a}}|$  equiv  $a$  we can represent vectors as geometric objects using arrows

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basic operations on vectors to add or subtract vectors  $\mathbf{u} = u_1 \mathbf{i} + u_2 \mathbf{j} + u_3 \mathbf{k}$  and  $\mathbf{v} = v_1 \mathbf{i} + v_2 \mathbf{j} + v_3 \mathbf{k}$  add or subtract the corresponding coordinates  $\mathbf{u} + \mathbf{v} = (u_1 + v_1) \mathbf{i} + (u_2 + v_2) \mathbf{j} + (u_3 + v_3) \mathbf{k}$  to multiply vector  $\mathbf{u}$  by a scalar  $k$  multiply each coordinate of  $\mathbf{u}$  by  $k$   $k\mathbf{u} = ku_1 \mathbf{i} + ku_2 \mathbf{j} + ku_3 \mathbf{k}$  example

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solution a the laplacian is  $\begin{vmatrix} 2 & 6 & 6 & 4 & 3 & 1 & 1 & 1 & 1 & 3 & 1 & 1 & 1 & 1 & 3 & 1 & 1 & 1 & 3 & 3 & 7 & 7 & 5 \end{vmatrix}$  the eigenvalues are 0 4 4 4 as one can see that the matrix a  $\begin{vmatrix} 4 \end{vmatrix}$  has 3 eigenvalues 0 and an eigenvalue 4 the eigenvectors are  $v_1 \begin{pmatrix} 1 \\ 1 \\ 1 \\ 1 \\ 1 \end{pmatrix} v_2 \begin{pmatrix} 1 \\ 1 \\ 0 \\ 0 \\ 0 \end{pmatrix} v_3 \begin{pmatrix} 1 \\ 0 \\ 1 \\ 0 \\ 0 \end{pmatrix} v_4 \begin{pmatrix} 1 \\ 0 \\ 0 \\ 1 \\ 0 \end{pmatrix}$  b the initial condition is  $3v_1 + v_2$  we can write down the closed

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higher order partial derivatives of  $w$  r  $t$  are define in a similar way the vector differential operator  $\nabla$  a vector is called differential operator  $\nabla$  gradient of a scalar let  $u$  is a scalar function in a space then gradient of a scalar is define as

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steven w ellingson virginia polytechnic institute and state university via virginia tech libraries open education initiative a vector is a mathematical object that has both a scalar part i.e. a magnitude and possibly a phase as well as a direction many physical quantities are best described as vectors

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