

GREAT

| 3) FIND LAPLACIAN OF THE SCALAR FIELDS | |
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| 4) FIND LAPLACIAN OF SCALAR FIELDS GIVEN GRADIENT | |
| 1 | Quiz Select from the answers below the Laplacian of the vector field $\mathbf{F} = x^3y\mathbf{i} + \ln(z)\mathbf{j} + \ln(xy)\mathbf{k}$. |
| 2 | Quiz Choose the Laplacian of $\mathbf{F} = 3x^2z\mathbf{i} - \sin(\pi y)\mathbf{j} + \ln(2x^3)\mathbf{k}$ at the point $(1, -2, 1)$? |
| 3 | Quiz Which of the following choices is the Laplacian of the vector field $\mathbf{F} = \ln(y)\mathbf{i} + z^2\mathbf{j} - \sin(2\pi x)\mathbf{k}$ at $(1, 1, \pi)$? |
| 4 | Choose the Laplacian of $f(\mathbf{r}) = 5x^3y^4z^2$. |
| 5 | Choose the Laplacian of $f(x, y, z) = \ln(r)$ where $r = \sqrt{x^2 + y^2 + z^2}$. |
| 6 | Select the Laplacian of $\mathbf{F} = x^3\mathbf{i} + 7y\mathbf{j} - 3\sin(2y)\mathbf{k}$. |