MATH 209 LAB EL08, Fall 2022, Lab Quiz 2 – Solutions

1. (4 points) Consider the function $f(x,y,z) = x^3 + 2yz - xy^2 + 5xz$.

   (a) (1 point) Compute the gradient $\nabla f(x,y,z)$.

   > **Solution:** We compute all first order derivatives of $f(x,y,z)$. In particular, we have
   >
   > $$\frac{\partial f}{\partial x} = 3x^2 - y^2 + 5z,$$
   > $$\frac{\partial f}{\partial y} = 2z - 2xy,$$
   > $$\frac{\partial f}{\partial z} = 5x + 2y.$$
   >
   > Hence, the gradient $\nabla f(x,y,z)$ is given by
   >
   > $$\nabla f(x,y,z) = \begin{pmatrix} 3x^2 - y^2 + 5z \\ 2z - 2xy \\ 5x + 2y \end{pmatrix}.$$

   (b) (1 point) Find the unit vector at the point $P(2,3,2)$ into the direction of $Q(3,6,4)$.

   > **Solution:** We first find the vector $\vec{v}$ in the direction from P to Q, i.e.,
   >
   > $$\vec{v} = Q - P = \begin{pmatrix} 3 \\ 6 \\ 4 \end{pmatrix} - \begin{pmatrix} 2 \\ 3 \\ 2 \end{pmatrix} = \begin{pmatrix} 1 \\ 3 \\ 2 \end{pmatrix}.$$
   >
   > To find the unit vector $\vec{u}$ we need to normalize $\vec{v}$. We have
   >
   > $$\|\vec{v}\| = \sqrt{1 + 9 + 4} = \sqrt{14},$$
   >
   > and therefore
   >
   > $$\vec{u} = \frac{\vec{v}}{\|\vec{v}\|} = \frac{1}{\sqrt{14}} \cdot \begin{pmatrix} 1 \\ 3 \\ 2 \end{pmatrix}.$$

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