DATA605: Fundamentals of Computational Mathematics Discussion 15

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Chapter 12.3 Question 15

Find the first and second partial derivatives for the function $f(x,y) = \sin x \cos y$.

 $f_x(x,y) = \cos x \cos y$

 $f_y(x,y) = -\sin x \sin y$

 $f_{xx}(x,y) = -\sin x \cos y$

 $f_{yy}(x,y) = -\sin x \cos y$

 $f_{xy}(x,y) = -\cos x \sin y$

 $f_{yx}(x,y) = -\cos x \sin y$