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web we can calculate this answer in steps we start with differentiating in terms of the left most variable in  $xyz$  so here we start by taking the derivative with respect to  $x$  first  $f_x = 4\cos 4x yz$  then  $f_{xx} = -16\sin 4x yz$   $f_{xy} = 16z\cos 4x yz$  finally  $f_{xyz} = 16\cos 4x yz - 16yz\sin 4x yz$