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2 1 solution we let f x y z 3x 2 xy z onumber then abla f langle 6x y x 1 rangle onumber at the point 1 2 1 the normal vector is abla f 1 2 1 langle 4 1 1 rangle onumber

**12.7 tangent lines normal lines and tangent planes** Oct 28 2023 since lines in these directions through big  $x \ 0 \ y \ 0 \ f \ x \ 0 \ y \ 0$  big are tangent to the surface a line through this point and orthogonal to these directions would be orthogonal or normal to the surface we can use this direction to create a normal line

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