## Tangent approximation

1. Find the equation of the tangent plane to the graph of $z=x y^{2}$ at the point $(1,1,1)$.
2. Give the linearization of $f(x, y)=\mathrm{e}^{x}+x+y$ at $(0,0)$.

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### 18.02SC Multivariable Calculus

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