## The surface <br> $$
z=f(x, y)=15-x^{2}-y^{2}
$$ and its tangent plane



## The surface

$$
\begin{aligned}
& \mathbf{z}=\mathbf{f}(\mathbf{x}, \mathbf{y})=\mathbf{1 5}-\mathbf{x}^{\mathbf{2}}-\mathbf{y}^{\mathbf{2}} \\
& \text { and a tangent plane }
\end{aligned}
$$



