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$1 = r \cos(\theta) \cos(\phi) + c$ where we have used the formula $\cos A \cos B - \sin A \sin B = \cos(A + B)$ Differentiating again and simplifying as before, $y' = r \sin(\theta) \cos(\phi) - r \sin(\phi) \cos(\theta) \sin(\theta)$. Similarly $y' = r \sin(\theta) \sin(\phi) + r \cos(\theta) \cos(\phi) \sin(\theta)$. Thus $y' = r \sin(\theta) \cos(\phi) - r \sin(\phi) \cos(\theta) \sin(\theta) + r \sin(\theta) \sin(\phi) + r \cos(\theta) \cos(\phi) \sin(\theta)$. Where $r = \sqrt{a^2 + b^2}$ and $\theta = \tan^{-1}(b/a)$.

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