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Derivatives of the Unit Vectors

Using the formulas for the spherical coordinate unit vectors in terms of the Cartesian unit vectors, prove that

$$rac{\partial \hat{m{r}}}{\partial heta} = \hat{m{ heta}}, \qquad rac{\partial \hat{m{r}}}{\partial \phi} = \sin heta \, \hat{m{\phi}}.$$

✓ Completed

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