$$\cos^2 \varphi = R^2$$

$\boldsymbol{y}$

$\hat{\boldsymbol{\varepsilon}} = \boldsymbol{y} - \hat{\boldsymbol{y}}$

$\boldsymbol{x}$

$\boldsymbol{y} - \bar{y}\vec{1}$

$\hat{\boldsymbol{y}}$

φ

$\hat{\boldsymbol{y}} - \bar{y}\vec{1}$

$\bar{y} \cdot \vec{1}$

$\vec{1}$