If each component of a vector is doubled, what happens to the angle of that vector?

A. it doubles

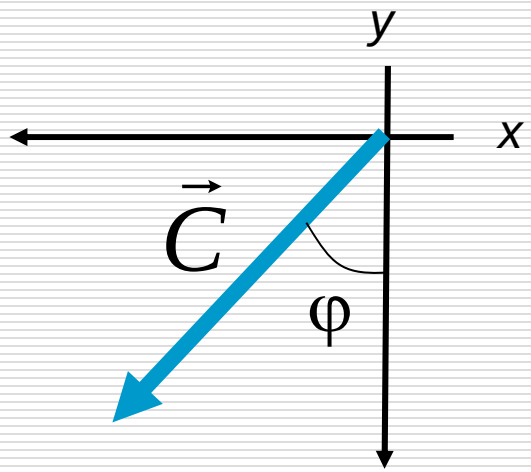
B. it increases, but by less than double

C. it does not change

D. it is reduced by half

E. it decreases, but not as much as half

Angle φ that specifies the direction of $\vec{C}$ is given by



A. $\tan^{-1}(C_x/C_y)$

B. $\tan^{-1}(C_x/|C_y|)$

C. $\tan^{-1}(|C_x|/|C_y|)$

D. $\tan^{-1}(C_y/C_x)$

E. $\tan^{-1}(C_y/|C_x|)$