Q1.1

What are the x– and y–components of the vector $\vec{E}$?
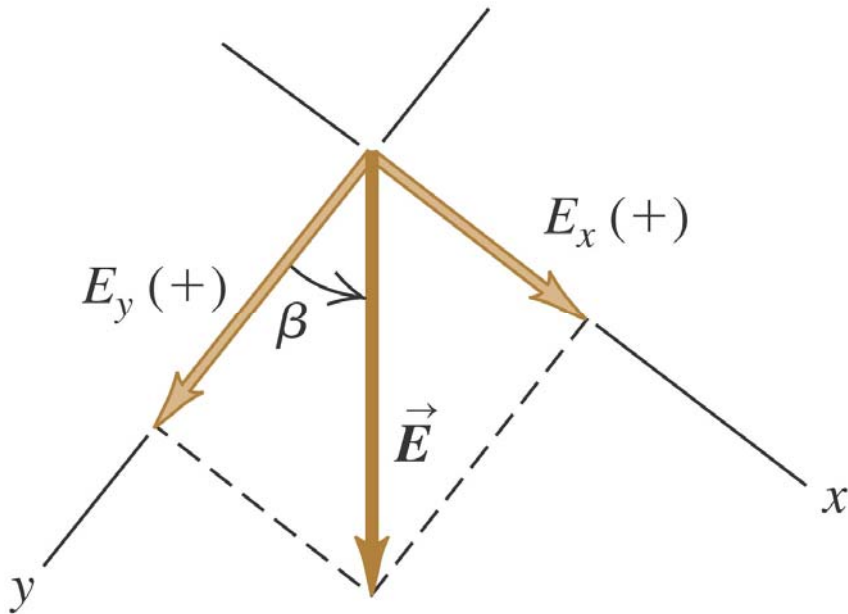
$E_x (+)$

$E_y (+)$

β

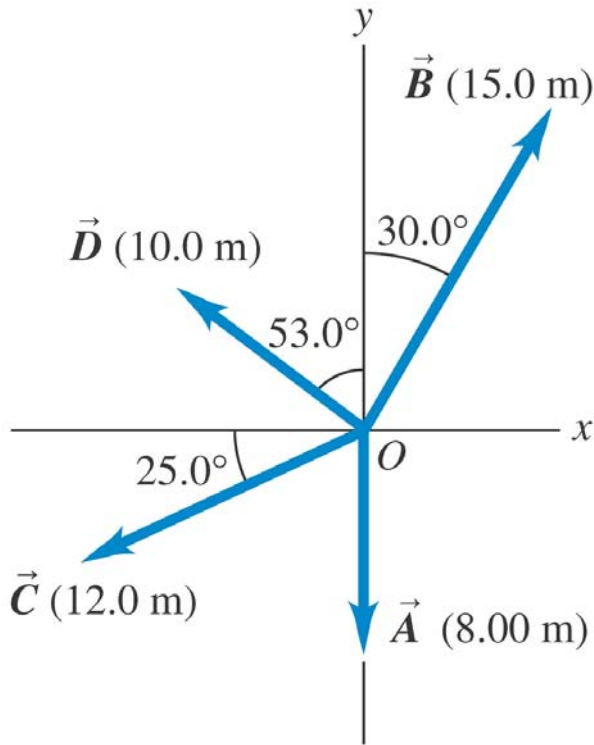$\vec{E}$

x

y

A. $E_x = E \cos \beta,\ E_y = E \sin \beta$

B. $E_x = E \sin \beta,\ E_y = E \cos \beta$

C. $E_x = -E \cos \beta,\ E_y = -E \sin \beta$

D. $E_x = -E \sin \beta,\ E_y = -E \cos \beta$

E. $E_x = -E \cos \beta,\ E_y = E \sin \beta$

3-5 Three vectors, **A, B,** and **C** are shown. Which of the four vectors at the bottom is the sum of these three? (i.e. **A+B+C**?)
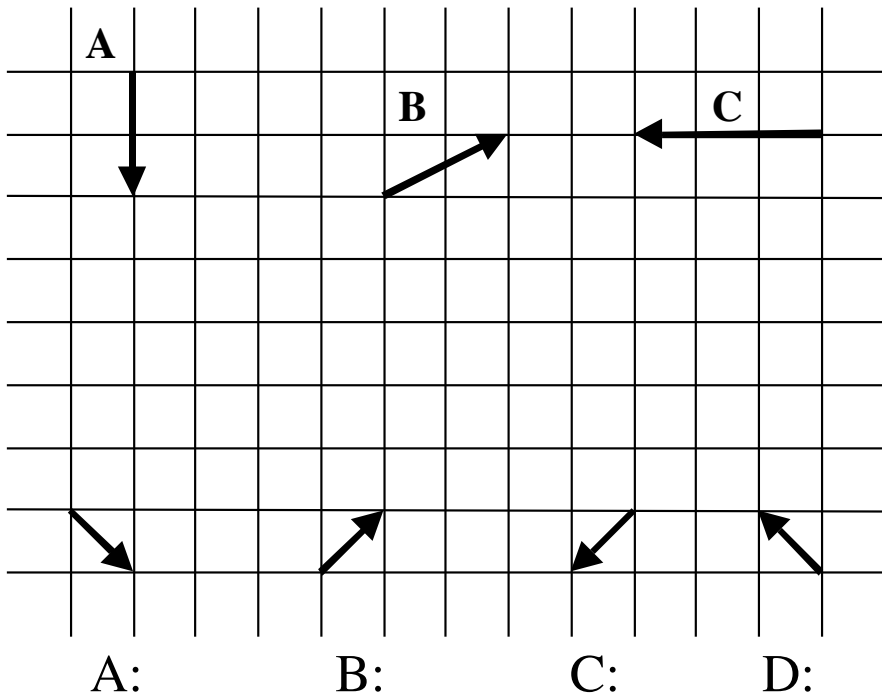
A: B: C: D:

Consider the vectors shown. Which is a correct statement about $\vec{A} + \vec{B}$?

A. x–component > 0, y–component > 0

B. x–component > 0, y–component < 0

C. x–component < 0, y–component > 0

D. x–component < 0, y–component < 0

E. x–component $= 0$, y–component > 0