

TYPO

Author: Michael Sullivan

Text: Precalculus, sixth edition

Section: 5.2 – Trigonometric functions: unit circle approach

Pg.: 331

Question: 1

Coordinates are given as: $(\sqrt{2}/2, 1/2)$

This is a typo because, since this is a unit circle, $x^2 + y^2$ should equal 1

$(\sqrt{2}/2)^2 + (1/2)^2 = 3/4$, which isn't equal to 1

This can be corrected either by changing $\sqrt{2}/2$ to $\sqrt{3}/2$

$$(\sqrt{3}/2)^2 + (1/2)^2 = 1$$

or by changing $1/2$ to $\sqrt{2}/2$

$$(\sqrt{2}/2)^2 + (\sqrt{2}/2)^2 = 1$$

The answer key in the back of the book says that $\cos = \sqrt{3}/2$

Since $\cos = x$, it means that changing $\sqrt{2}/2$ to $\sqrt{3}/2$ is how the typo should be corrected.

*Note: not all of the texts have this typo