# Answer on Question #57982 – Math – Trigonometry

### Question

**1.** There are values of t so that the equation cost = 5/4 holds.

A: true

B: false

## Solution

 $-1 \le \cos(t) \le 1$ 

There are no values of t so that the equation cost = 5/4 holds, because

and

 $\frac{5}{4} > 1.$ 

Answer: B: false.

### Question

2. There are values of t so that sin t = 0.6 and cos t = 0.8A: trueB: false

### Solution

There are values of t so that sin t = 0.6 and cos t = 0.8, because sin t = 0.6 and cos t = 0.8 satisfy the Pythagorean identity:

 $(0.6)^2 + (0.8)^2 = 0.36 + 0.64 = 1$ 

Answer: A: true.

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