Name _____ Date _____

Applying Trigonometric Identities - Step-by-Step Lesson

If sin ß = 2/4, then what is the value of tan ß?

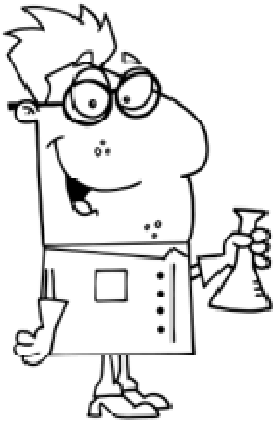
Rounded to the nearest hundredth.

a) 0.20

b) 0.50

c) 0.60

d) 0.80



Explanation:

We need to remember the trigonometric relationship between sin and tan.

$\tan \theta = \frac{\sin \theta}{\cos \theta}$ $\sin(x) = \cos(x - \pi/2)$

$\tan \theta = \frac{\cos(x - \pi/2)}{\cos \theta}$ replace values and plug in values to solve.

tan ß= 0.60