

Pythagorean Identities

Determine the exact values of the remaining five trigonometric ratios.

1) $\tan x = \frac{4\sqrt{2}}{7}$ and x lies in quadrant I.

2) $\csc x = -\frac{9}{7}$

3) $\sin x = -\frac{1}{1}$

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1) $\tan x = \frac{4\sqrt{2}}{7}$ and x lies in quadrant I.

$$\sec x = \frac{9}{7}$$

$$\sin x = \frac{4\sqrt{2}}{9}$$

$$\cos x = \frac{7}{9}$$

 $9\sqrt{2}$
 $7\sqrt{2}$

PREVIEW

2) $\csc x = -\frac{9}{7}$

cot x

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3) $\sin x = -\frac{1}{1}$

$$\cos x = -\frac{8}{17}$$

$$\tan x = \frac{15}{8}$$

$$\csc x = -\frac{17}{15}$$

$$\sec x = -\frac{17}{8}$$

$$\cot x = \frac{8}{15}$$