

Pythagorean Identities

Determine the exact values of the remaining five trigonometric ratios.

1) $\csc x = \frac{5}{4}$ and $0 \leq x \leq \frac{\pi}{2}$.

2) $\sin x = \frac{2}{3}$ and

3) $\tan x = -\frac{2}{3}$ and

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Determine the exact values of the remaining five trigonometric ratios.

1) $\csc x = \frac{5}{4}$ and $0 \leq x \leq \frac{\pi}{2}$.

$$\cot x = \frac{3}{4}$$

$$\sin x = \frac{4}{5}$$

$$\cos x = \frac{3}{5}$$

2) $\sin x = \frac{2}{3}$ and

cos x

3) $\tan x = -\frac{24}{7}$

$$\sec x = \frac{25}{7}$$

$$\sin x = -\frac{24}{25}$$

$$\cos x = \frac{7}{25}$$

$$\csc x = -\frac{25}{24}$$

$$\cot x = -\frac{7}{24}$$

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