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L2S2

Pythagorean Identities

Determine the exact values of the remaining five trigonometric ratios.

1) $\cos x = -\frac{9}{41}$ and $180^\circ \leq x \leq 270^\circ$.

2) $\cot x = \frac{11}{60}$

3) $\sec x = -\frac{5}{3}$

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Pythagorean Identities

Determine the exact values of the remaining five trigonometric ratios.

1) $\cos x = -\frac{9}{41}$ and $180^\circ \leq x \leq 270^\circ$.

$$\sin x = -\frac{40}{41}$$

$$\tan x = \frac{40}{9}$$

$$\csc x = -\frac{41}{40}$$

41

9

PREVIEW

2) $\cot x = \frac{11}{60}$

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csc x

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3) $\sec x = -\frac{37}{12}$

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$$\tan x = -\frac{35}{12}$$

$$\sin x = \frac{35}{37}$$

$$\cos x = -\frac{12}{37}$$

$$\csc x = \frac{37}{35}$$

$$\cot x = -\frac{12}{35}$$