

Section 6 3 Trigonometric Function with Any Angles

Lesson 222 | Precalculus | Unit circle and exact values • Radians, reference and coterminal angles

<https://www.youtube.com/watch?v=gWJGEG9OzfE>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Find exact $\sin(-2940^\circ)$ and $\cos(-2940^\circ)$ using the unit circle. Give the coterminal angle in $[0^\circ, 360^\circ)$.

02

For angle 3150° , find the radian measure, the coterminal angle in $[0^\circ, 360^\circ)$, and its reference angle (use 0° or 90° for axis angles).

03

Find exact $\sin(2550^\circ)$ and $\cos(2550^\circ)$ using the unit circle. Give the coterminal angle in $[0^\circ, 360^\circ)$.

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04

For angle 3480° , find the radian measure, the coterminal angle in $[0^\circ, 360^\circ)$, and its reference angle (use 0° or 90° for axis angles).

05

Find exact $\sin(-2010^\circ)$ and $\cos(-2010^\circ)$ using the unit circle. Give the coterminal angle in $[0^\circ, 360^\circ)$.

06

For angle -2460° , find the radian measure, the coterminal angle in $[0^\circ, 360^\circ)$, and its reference angle (use 0° or 90° for axis angles).

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- 01** Find exact $\sin(-2940^\circ)$ and $\cos(-2940^\circ)$ using the unit circle. Give the coterminal angle in $[0^\circ, 360^\circ)$.
- Coterminal angle 300° . Coordinates $(\cos \theta, \sin \theta) = (1/2, -\sqrt{3}/2)$; the first is cosine and the second is sine.
- 02** For angle 3150° , find the radian measure, the coterminal angle in $[0^\circ, 360^\circ)$, and its reference angle (use 0° or 90° for axis angles).
- Radians = $35/2\pi$. Coterminal angle 270° . Reference angle 90° .
- 03** Find exact $\sin(2550^\circ)$ and $\cos(2550^\circ)$ using the unit circle. Give the coterminal angle in $[0^\circ, 360^\circ)$.
- Coterminal angle 30° . Coordinates $(\cos \theta, \sin \theta) = (\sqrt{3}/2, 1/2)$; the first is cosine and the second is sine.

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04

For angle 3480° , find the radian measure, the coterminal angle in $[0^\circ, 360^\circ)$, and its reference angle (use 0° or 90° for axis angles).

Radians = $58/3\pi$. Coterminal angle 240° . Reference angle 60° .

05

Find exact $\sin(-2010^\circ)$ and $\cos(-2010^\circ)$ using the unit circle. Give the coterminal angle in $[0^\circ, 360^\circ)$.

Coterminal angle 150° . Coordinates $(\cos \theta, \sin \theta) = (-\sqrt{3}/2, 1/2)$; the first is cosine and the second is sine.

06

For angle -2460° , find the radian measure, the coterminal angle in $[0^\circ, 360^\circ)$, and its reference angle (use 0° or 90° for axis angles).

Radians = $-41/3\pi$. Coterminal angle 60° . Reference angle 60° .