



# DEGREES TO RADIANS

Name \_\_\_\_\_

Score \_\_\_\_\_

QA:11

Example: Convert  $-144^\circ$  to radians.

$$\text{Radians} = \text{Degrees} \times \frac{\pi}{180}$$

$$\text{Radians} = -144 \times \frac{\pi}{180}$$

$$\text{Radians} = -\frac{4\pi}{5}$$

Convert each degree measure to the radian measure.

1)  $50^\circ =$  \_\_\_\_\_ radians

2)  $-210^\circ =$  \_\_\_\_\_ radians

3)  $-15^\circ =$  \_\_\_\_\_ radians

4)  $390^\circ =$  \_\_\_\_\_ radians

5)  $96^\circ =$  \_\_\_\_\_ radians

6)  $285^\circ =$  \_\_\_\_\_ radians

7)  $-88^\circ =$  \_\_\_\_\_ radians

8)  $400^\circ =$  \_\_\_\_\_ radians



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## Answer key

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Example: Convert  $-144^\circ$  to radians.

$$\text{Radians} = \text{Degrees} \times \frac{\pi}{180}$$

$$\text{Radians} = -144 \times \frac{\pi}{180}$$

$$\text{Radians} = -\frac{4\pi}{5}$$

Convert each degree measure to the radian measure.

1)  $50^\circ = \underline{\frac{5\pi}{18}}$  radians

2)  $-210^\circ = \underline{-\frac{7\pi}{6}}$  radians

3)  $-15^\circ = \underline{-\frac{\pi}{12}}$  radians

4)  $390^\circ = \underline{\frac{13\pi}{6}}$  radians

5)  $96^\circ = \underline{\frac{8\pi}{15}}$  radians

6)  $285^\circ = \underline{\frac{19\pi}{12}}$  radians

7)  $-88^\circ = \underline{-\frac{22\pi}{45}}$  radians

8)  $400^\circ = \underline{\frac{20\pi}{9}}$  radians