

Converting Between Radians and Degrees Notes

Name: _____

Date: _____

Period: _____

G _____

What is a radian?

How many degrees measure the angle of a half circle?

How many radians exactly measure the angle of a half circle?

Write an equation relating radians and degrees of a half circle.

Use this relationship to convert $\frac{\pi}{3}$ radians to degrees.

How many radians are in 200° ?
Give an exact value using π in your answer.

Convert each of the following degree measures to radians. Use π to give exact values.

a. 180°

b. -36°

c. $2\pi^\circ$

Convert the radian measures to degrees. Leave π in your answer if necessary to give the exact value.

a. $\frac{3\pi}{2}$ radians

b. $-\frac{7\pi}{6}$ radians

c. 2 radians