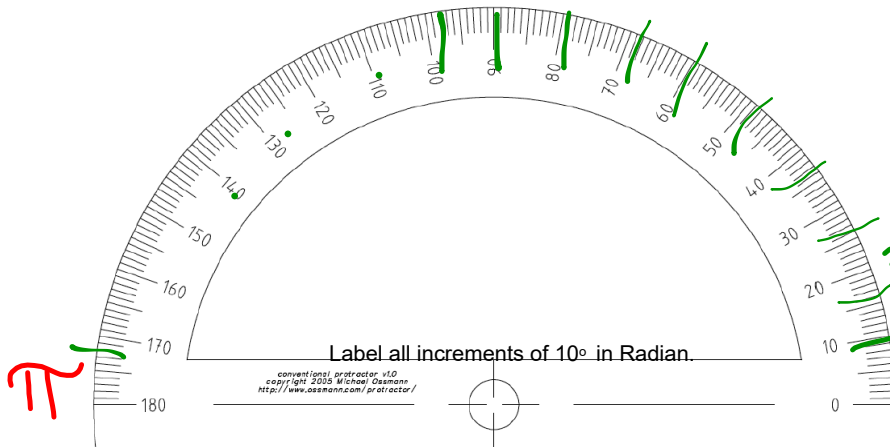
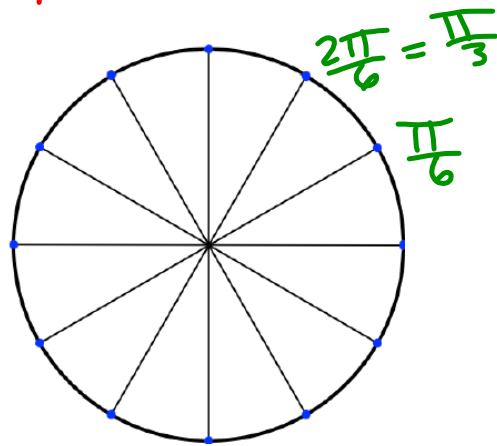
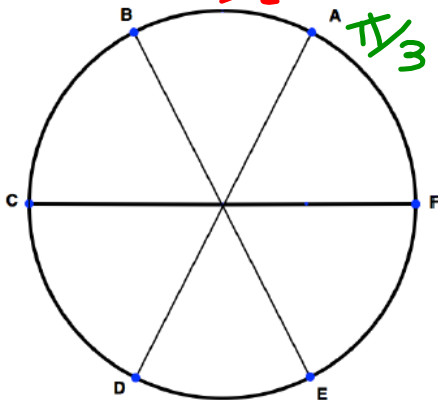
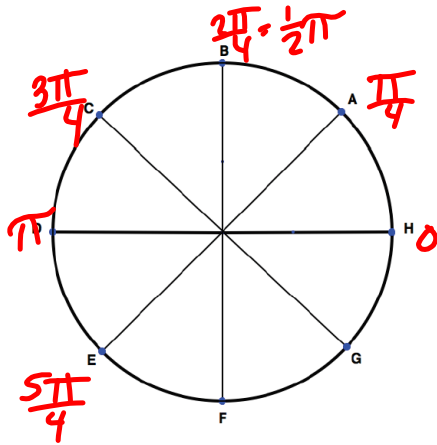
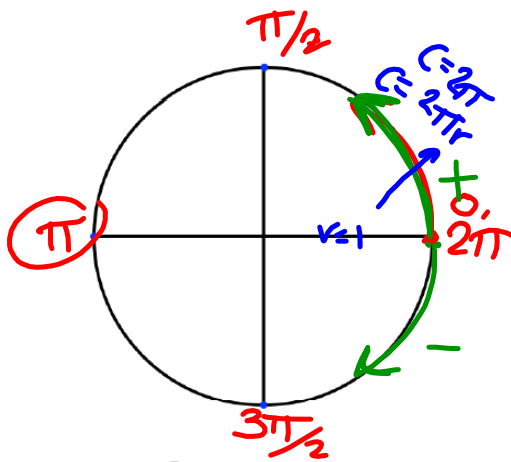


Name \_\_\_\_\_ Period \_\_\_\_\_  
 Degree to Radian Measures Worksheet



Handwritten notes:  $2\pi/18 = \pi/9$ ,  $180/10 = 18$ ,  $\pi/18$  (circled).

Write a rule to change from degree to radian:

Handwritten rule in a red box:

$$D \left( \frac{\pi}{180} \right) = R$$

$$R \left( \frac{180}{\pi} \right) = D$$

Handwritten example:  $10 \pi / 180 = \pi / 18$

## Degree vs. Radian

Convert each degree measure into radians.

1)  $45^\circ$

2)  $55^\circ$


3)  $195^\circ \left( \frac{\pi}{180} \right) = \frac{195\pi}{180} = \frac{13\pi}{12}$

4)  $210^\circ$

5)  $330^\circ$

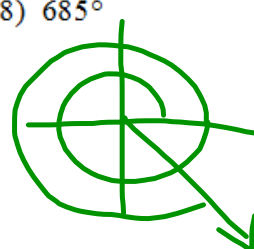
6)  $315^\circ$

7)  $-240^\circ$



$$\frac{-240\pi}{180} = -\frac{4\pi}{3}$$

8)  $685^\circ$



$$\frac{685\pi}{180} = \frac{137\pi}{36}$$

Convert each radian measure into degrees.

9)  $\frac{\pi}{6}$

10)  $\frac{5\pi}{4}$

11)  $\frac{5\pi}{3} \left( \frac{180}{\pi} \right) = \frac{5 \cdot 180}{3} = 300^\circ$

12)  $\frac{19\pi}{18}$