

Unit Circle Day 1 HW

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. Convert  $x$  radians to degrees.

- A.  $\frac{\pi}{180x}$    B.  $\frac{180}{\pi x}$    C.  $\frac{180x}{\pi}$    D.  $\frac{90}{\pi x}$

2. Convert  $x$  degrees to radians.

- A.  $\frac{\pi}{180x}$    B.  $\frac{\pi x}{180}$    C.  $\frac{180x}{\pi}$    D.  $\frac{90}{\pi x}$

3. Convert to radians:  $315^\circ$

- A.  $\frac{7\pi}{4}$    B.  $\frac{5\pi}{4}$    C.  $\frac{7\pi}{8}$    D.  $\frac{5\pi}{3}$

4. Express  $\frac{8\pi}{3}$  radians in degrees.

- A.  $68^\circ$    B.  $145^\circ$    C.  $480^\circ$    D.  $1508^\circ$

5. Express 0.4 radians to the nearest degree.

- A.  $23^\circ$    B.  $18^\circ$    C.  $20^\circ$    D.  $24^\circ$

6. Express in degrees an angle of  $\frac{7\pi}{6}$  radians.

7. Convert to radian measure. Answer to 2 decimal places.

- a)  $-84^\circ$   
b)  $119^\circ$   
c)  $32^\circ$

1.  
Answer:        C  
Objective:     F.TF.1
  
2.  
Answer:        B  
Objective:     F.TF.1
  
3.  
Answer:        A  
Objective:     F.TF.1
  
4.  
Answer:        C  
Objective:     F.TF.1
  
5.  
Answer:        A  
Objective:     F.TF.1
  
6.  
Answer:         $210^\circ$   
Objective:     F.TF.1
  
7.  
Answer:         $-1.47, 2.08, 0.56$   
Objective:     F.TF.1