

Name \_\_\_\_\_ Hour \_\_\_\_\_

### **Unit 6 – Degrees, Radians and Revolutions**

- 1.** Convert each angle from degrees to radians and number of revolutions. Show work.

Radians

Revolutions

a.  $90^\circ$  \_\_\_\_\_

\_\_\_\_\_

b.  $160^\circ$  \_\_\_\_\_

\_\_\_\_\_

c.  $75^\circ$  \_\_\_\_\_

\_\_\_\_\_

d.  $1440^\circ$  \_\_\_\_\_

\_\_\_\_\_

- 2.** Convert each angle from radians to degrees and number of revolutions. Show work.

Degrees

Revolutions

a.  $\frac{10\pi}{9}$  \_\_\_\_\_

\_\_\_\_\_

b.  $\frac{11\pi}{18}$  \_\_\_\_\_

\_\_\_\_\_

c.  $3\pi$  \_\_\_\_\_

\_\_\_\_\_

d.  $\frac{5\pi}{18}$  \_\_\_\_\_

\_\_\_\_\_

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### 3. Complete the table.

<b>Degrees</b>	<b>0</b>	<b>30</b>			<b>90</b>		<b>135</b>	<b>150</b>
<b>Radians</b>			$\frac{\pi}{4}$	$\frac{\pi}{3}$		$\frac{2\pi}{3}$		
<b>Revolutions</b>	<b>0</b>							