	NAME	DATE PERIOD	
6-1	Practice		6-1
Angles and Radian Measure			Angle
Change each degree measure to radian measure in terms			The mil is
<i>of π.</i> 1250°	2. 6°	3. -145°	uses the r involving
$-\frac{25\pi}{18}$	$\frac{\pi}{30}$	$-\frac{29\pi}{36}$	in long-ra
או	30	36	In ordina
4. 870°	5. 18°	6. −820°	
<u>29π</u> 6	<u>-</u> <u></u> 10	$-\frac{41\pi}{9}$	measuren subtend a
-			mils arou
Change each radian measure to degree measure. Round to			6283.18 u convenien
the nearest	tenth, if necessary.		Convenien
7. 4π	8. $\frac{13\pi}{30}$	9. -1	
720 °	78 °	-57.3°	So, 6400 r
10 3π	11 9.56	1.9 7π	Example
10. $\frac{3\pi}{16}$	11. -2.56	12. $-\frac{7\pi}{9}$ - 140°	
33.8 °	-146.7°	- 140	
Evaluate eac	ch expression.		Change e
13. $\tan \frac{\pi}{4}$	14. $\cos \frac{3\pi}{2}$	15. $\sin \frac{3\pi}{2}$	1. 1600 m
1	0	-1	
			$\frac{\pi}{2}$
16. $tan \frac{11\pi}{6}$	17. $\cos \frac{3\pi}{4}$	18. $\sin \frac{5\pi}{3}$	_
$-\frac{\sqrt{3}}{3}$	$-\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{3}}{2}$	3. 4800 m
			3π
Given the measurement of a central angle, find the length			2
	epted arc in a circle of radius 10 cer e nearest tenth.	ntimeters.	Change
19. $\frac{\pi}{6}$	20. $\frac{3\pi}{5}$	21. $\frac{\pi}{2}$	Change e answers t
5.2 cm	18.8 cm	² 15.7 cm	5. $\frac{\pi}{8}$
			400 r
	a of each sector, given its central a	•	
	f the circle. Round to the nearest term $\frac{7\pi}{7\pi}$		
22. $\theta = \frac{\pi}{6}, r =$			7. $\frac{\pi}{12}$
51.3 un i	ITS ² 44.0 um	15-	266.7
			200.7