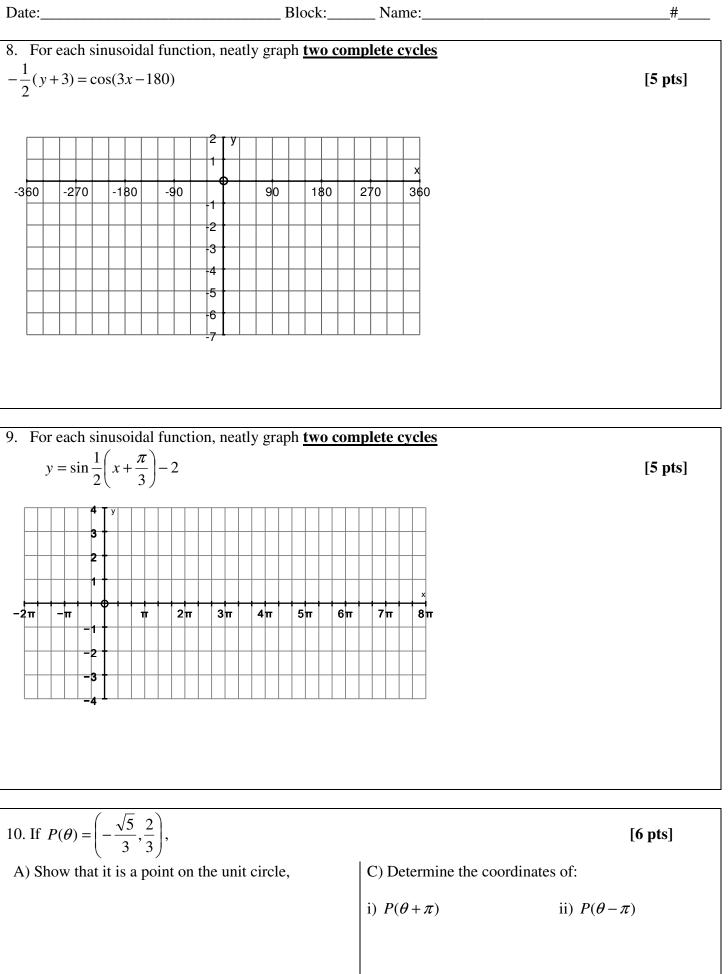
Date:	:Block:Name:#		
	TAKE HOME ASSIGNMENT – ch 4 & 5.1-5.2		
	the nearest TENTH.	ided. m of 4 places after the decimal.	
1. For each of the angles b (Answers must be E		and one NEGATIVE co terminal an	gle: [2 pts]
A) 765°		B) $\frac{55\pi}{8}$	
Positive:		o Positive:	-
Negative:		Negative:	_
		(ie. no decimal answers). If the answers) ical form. Show all work!!!	ver involves
$\frac{5\cos(-240^{\circ})}{4\sin 210^{\circ} - 3\tan(60^{\circ})}$	[4 pts]	B) $\frac{3\tan\left(-\frac{2\pi}{3}\right) + 4\sec\left(\frac{\pi}{4}\right)}{6\cot\left(\frac{7\pi}{3}\right)}$	[4 pts]

Date:	_Block:	Name:	#
3. Given $\sin \theta = -\frac{4}{7}$ where $\pi \le \theta < \frac{3\pi}{2}$,	Find the EX	ACT value of $\sec\theta$ and $\cot\theta$.	Draw a sketch (label
it) showing angle θ in standard positive			
it) showing angle 0 in standard positi	011.		[4 pts]
4. Determine the approximate measure o	f anch angla	Use diagrams to show the num	har of possible solutions
and the quadrants in which they lie. The			
	, 8	I	
A) $\sin \theta = 0.42$, domain $-\pi \le \theta \le \pi$	[2 pts]	B) $\cot \theta = -4.87$, domain $-\frac{\pi}{2}$:	$\leq \theta \leq \pi$ [2 pts]
		2	
C) sec $\theta = 4.87$, domain $-360^\circ \le \theta < 180^\circ$)° [2 pts]	D) $\tan \theta = 1.5$, domain -180°	$\leq \theta < 360^{\circ}$ [2 pts]

Da	te:Block:Name:	#
5.	Two wheels are connected by a pulley as shown. The large wheel has a radius of 15cm and the wheel has a radius of 5cm.	he small
A)	If the large wheel rotates 40°, how many radians does the small wheel rotate? [2 pt[
B)	If the small wheel rotates $\frac{5\pi}{12}$ radians, how many degrees does the large wheel rotate? [2 pt]	
C)	If the large wheel rotates 100°, what distance does a point on the circumference of the small v	wheel travel? [2 pt]
6.	The point $\left(\frac{5}{6}, y\right)$ lies on the unit circle in quadrant IV. Find the missing coordinate point.	[2 pt]

0.	(6 [,]))	a me mooning coor amme Pomu	[- k•]

7. For the following sinusoidal graph and give the indicated equations.	n, state the period, the equation of the sinusoidal axis, and the amplitude [5 pts]
Period:	
E.o.S.A.:	-π/2
Amplitude:	
Reflected Sine	Regular Cosine
$y = -\sin\theta$	$y = \cos \theta$



B) State the quadrant that θ terminates in.

iii)
$$P\left(\theta + \frac{\pi}{2}\right)$$
 iv) $P\left(\theta - \frac{\pi}{2}\right)$