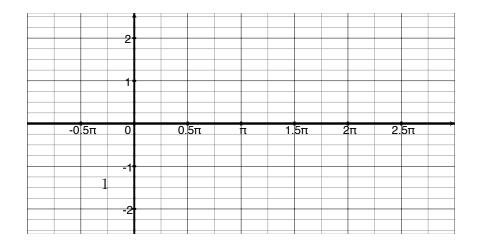
Trig Practice

While working in a group make sure you:

- Expect to make mistakes but be sure to reflect/learn from them!
- Are civil and are aware of your impact on others.
- Assume and engage with the strongest argument while assuming best intent.
- 1. Let $\pi < \theta < \frac{3\pi}{2}$ and $\cos \theta = \frac{-8}{17}$.
 - (a) There are at least two ways you can find the exact value of $\sin \theta$. Employ one of these methods to find $\sin \theta$.
 - (b) Find one other method you could have used to answer (a). Explain each, step by step below. (Consider asking another group since they might have employed one a method different from yours.)

(c) Find the exact value of $\sec(\theta) + \tan(\theta)$.

- 2. Draw $\sin \theta$ on the axes.
- 3. Draw $3\sin(2\theta) + 3$.



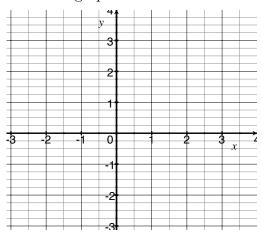
4. Find the exact values of each expression below:

(a)
$$\arcsin \frac{1}{\sqrt{2}}$$
. (b) $\sin^{-1} \frac{-1}{\sqrt{2}}$.

(c)
$$\cos^{-1}\frac{1}{2}$$
 (d) $\cos(\sin^{-1}\frac{4}{7})$

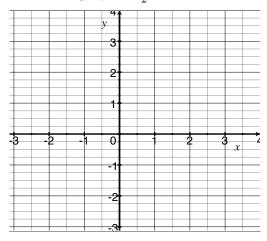
Note, that the last one can be completed in at least two different ways.

5. Draw the graph of $\arccos x$ and $\arctan x$ below.



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	31		
	21		
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F			<i>x</i>
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	- I <u>T</u>		
	-2		
	-2		
	-2		
	-2		

6. Draw the graph of $\frac{1}{2} \arccos x - 1$ and $\arctan \frac{1}{3}x$ below.



		44		
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	_			
_		3		
-	_	2		
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-3	-	-1 0	+ + + +	\rightarrow
	-2	-	4	x ·
–				~
		-1		
		-1		
		-1		