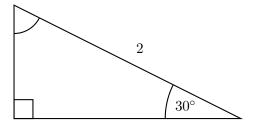
Trigonometry	Name:
Study Guide 5	Class:
Due Date:	Score:

No Work \Leftrightarrow No Points

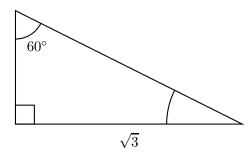
Use Pencil Only \Leftrightarrow Be Neat & Organized

1. (4 points) Find the missing sides and then find the value of all six trigonometric function of the indicated angle.

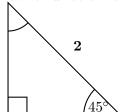


1. _____

2. (4 points) Find the missing sides and then find the value of all six trigonometric function of the indicated angle.

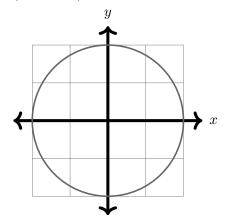


3. (4 points) Find the missing sides and then find the value of all remaining trigonometric function of the indicated angle.



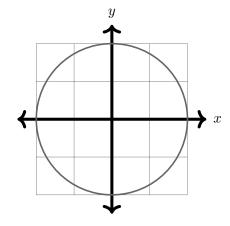
3. _____

- 4. Draw the angle in standard position using the unit circle below and find its reference angle in degrees for the indicated angles below:
 - (a) (3 points) 125°



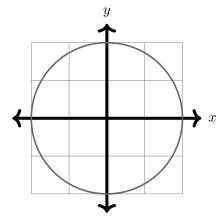
(a) _____

(b) (3 points) 240°



(b) _____

(c) (3 points) -105°



(c) _____

5. (4 points) Simplify: $\sec^2 \alpha - \sin \alpha \cdot \csc \alpha$

5. _____

6. (4 points) Simplify: $\sin x \csc x + \cos x \sec x - 2 \tan x \cot x$

6. _____

7. (3 points) Verify: $(\csc x - 1)(\csc x + 1) = \cot^2 x$

7. _____

8. (3 points) Verify: $(\sec x - 1)(\sec x + 1) = \tan^2 x$

3.

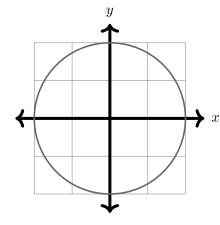
9. (3 points) What is the reference angle for the angle $\theta = 405^{\circ}$?

9.

10. (3 points) What is the reference angle for the angle $\theta = -\frac{\pi}{3}$?

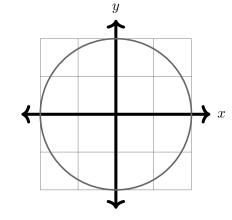
10. _____

- 11. Draw the angle in standard position using the unit circle below and find its reference angle in degrees for the indicated angles below:
 - (a) (3 points) $\frac{2\pi}{3}$



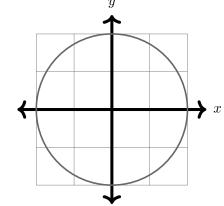
(a) _____

(b) (3 points) $\frac{-\pi}{4}$



(b) _____

(c) (3 points) $\frac{23\pi}{6}$



(c) _____