

Calculus I

Name: _____

DLA Series 6

Class: _____

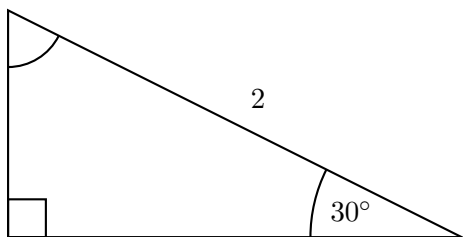
Due Date: _____

Score: _____

No Work \Leftrightarrow No Points

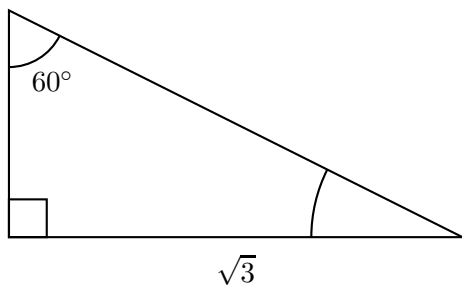
Use Pencil Only \Leftrightarrow Be Neat & Organized

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



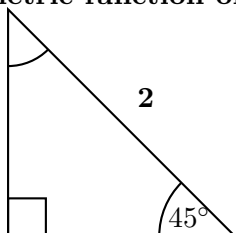
1. _____

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



2. _____

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



3. _____

4. (3 points) Simplify: $\sin \alpha \cdot \csc \alpha - \cos \alpha \cdot \sec \alpha$

4. _____

5. (3 points) Simplify: $\sin x \csc x + \cos x \sec x - 2 \tan x \cot x$

5. _____

6. (4 points) Simplify: $(\sin x + \cos x)^2 + (\sin x - \cos x)^2$

6. _____

7. (4 points) Verify: $(\csc x - 1)(\csc x + 1) = \cot^2 x$

7. _____

8. (4 points) Verify: $(\sec x - 1)(\sec x + 1) = \tan^2 x$

8. _____