Quiz Details

Quiz Instructions:

Please answer all questions to the best of your ability. All of the questions on the exam require a typed response and I want you to include as much detail as possible. If you aren't familiar with using the insert equation feature on Canvas I would suggest you look over the link on our module page before you get started with the exam. This feature will allow you to include Greek letters, and other features of mathematical formulas in your answers.

 After you start the exam, you will have a total of 60 minutes to answer all the questions and submit the exam. This is an open notes exam, but you are not allowed to get help from any other source including but not limited to tutors, or your fellow classmates.

Best of luck!

☐ Show Question Details

Coterminal, Complement or Supplement	Pick 1 questions, 5 pts per question

Question

Find an angle that is co-terminal with the angle $\frac{-11\pi}{4}$.

Question

Find an angle that is the complement of $\frac{\pi}{6}$.

Question

Find an angle that is the supplement of $127°$.

Conversion Questions   Pick 2 questions, 5 pts per question

Question

Convert the following angle into radians $-405°$.

Question

Convert the following angle into radians $140°$.

Question

Convert the following angle into degrees $-\frac{3\pi}{4}$.

Question

Convert the following angle into degrees $\frac{\pi}{270}$.

Reference Angle   Pick 1 questions, 5 pts per question

Question

Find the reference angle for the given angle $t = \frac{15\pi}{4}$

Question

Find the reference angle for the given angle $t = -\frac{7\pi}{6}$

Trig Function Values   Pick 1 questions, 10 pts per question

Question

Give the exact value of all six trigonometric functions for the following value of t. If a certain value is undefined, state so.

$t = \frac{15\pi}{4}$

Question

Give the exact value of all six trigonometric functions for the following value of t. If a certain value is undefined, state so.

$t = \frac{3\pi}{2}$

Question

Give the exact value of all six trigonometric functions for the following value of t. If a certain value is undefined, state so.

$t = \frac{7\pi}{3}$

Trig Function Values outside 1st Quadrant   Pick 1 questions, 10 pts per question
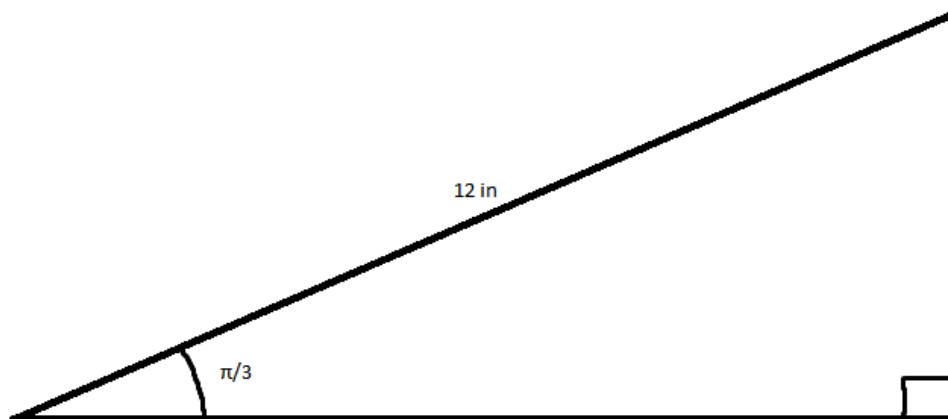
Question

Give the exact value of all six trigonometric functions for the following value of t. If a certain value is undefined, state so.

$t = -\frac{7\pi}{6}$

Question

Give the exact value of all six trigonometric functions for the following value of t. If a certain value is undefined, state so.

$t = \frac{\pi}{2}$

Question

Give the exact value of all six trigonometric functions for the following value of t. If a certain value is undefined, state so.

$t = \frac{5\pi}{4}$

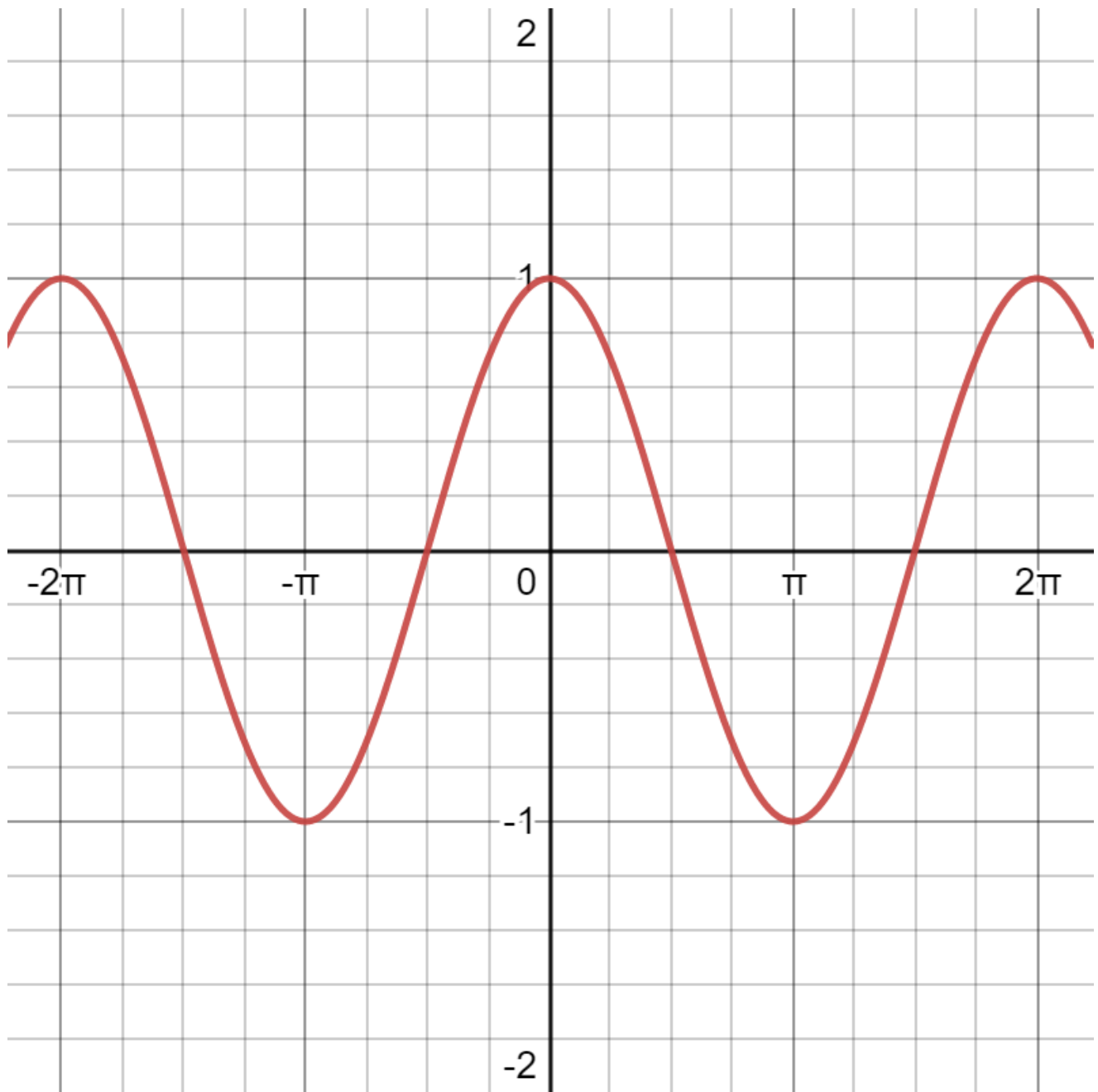**Find the Dimensions of This Triangle**   Pick 1 questions, 10 pts per question

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Question

Give the length of all sides of the triangle pictured below.

12 in

π/3

Which Trig Function is represented in the following Graph   Pick 1 questions, 10 pts per question
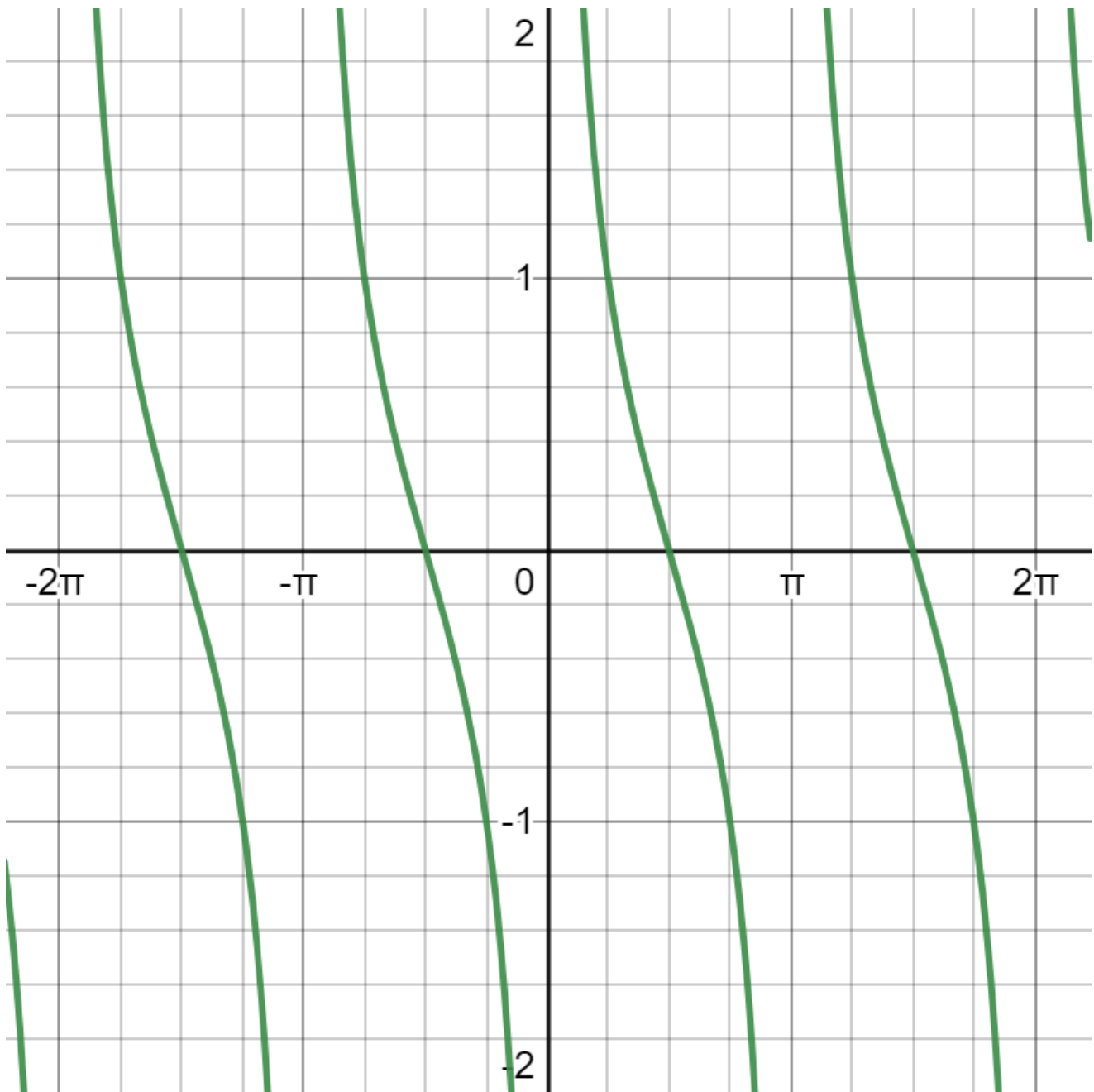

Question

Which basic trigonometric function is graphed below? (Note: basic means I have applied no transformations to the function.) What is the period of that function?

Question

Which basic trigonometric function is graphed below? (Note: basic means I have applied no transformations to the function.) What is the period of that function?

What is the Domain and Range of the listed Trig Function   Pick 1 questions, 10 pts per question

Question

What is the domain and range of the function $f(x) = \sin(x)$?

Question

What is the domain and range of the function $f(x) = \cos(x)$?

Negative Angle Properties   Pick 2 questions, 5 pts per question

Question

Is the following statement true for all values x in the interval $[0, 2\pi)$?

$\cot(-x) = -\cot(x)$

Question

Is the following statement true for all values x in the interval $[0, 2\pi)$?

$\cos(-x) = -\cos(x)$

Find Domain and Range of another Listed Trig Function (Not Cosine or Sine)   Pick 1 questions, 10 pts per question

Question

What is the domain and range of the function $f(x) = \tan(x)$?

Question

What is the domain and range of the function $f(x) = \csc(x)$?

Describe Transformations of a Trig Function   Pick 1 questions, 10 pts per question

Question

Decide the basic trigonometric function in the graph below. Then describe the transformations applied to the function. Finally write up the equation of the function. (Note: You must show all three steps to receive full credit.)