

Trigonometry

Name: \_\_\_\_\_

Study Guide 14

Class: \_\_\_\_\_

Due Date: \_\_\_\_\_

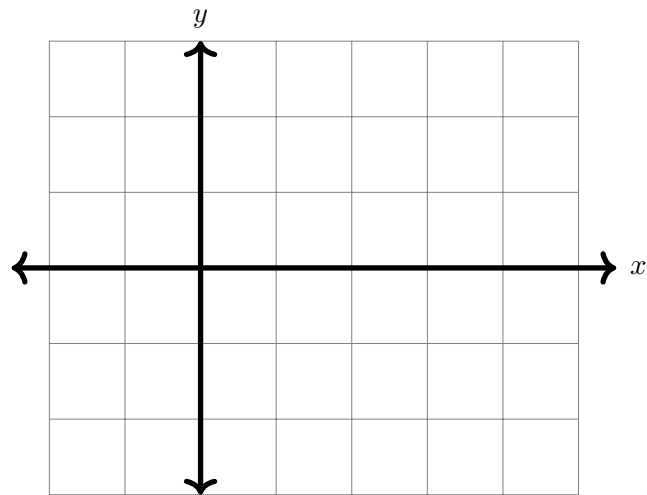
Score: \_\_\_\_\_

No Work  $\Leftrightarrow$  No Points

Use Pencil Only  $\Leftrightarrow$  Be Neat & Organized

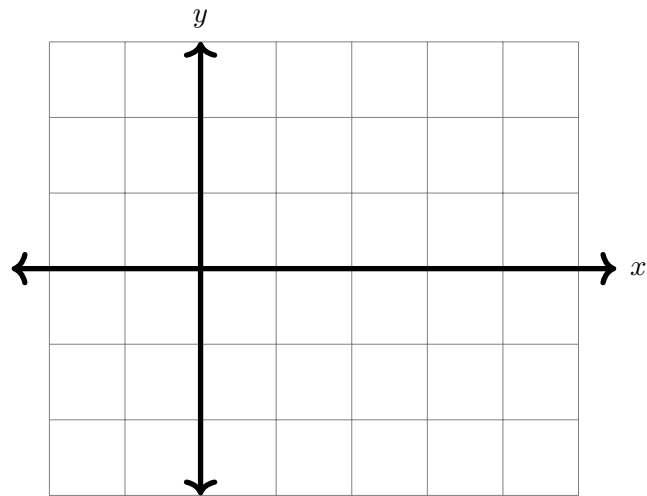
1. (5 points) Draw a dotted graph of  $y = \sin x$  over the interval  $[0, 2\pi]$ , then clearly complete the chart below to graph  $y = -2\sin(x + \pi)$  below. Mark all relevant information.

Amplitude	
Horizontal Shift	
Vertical Shift	



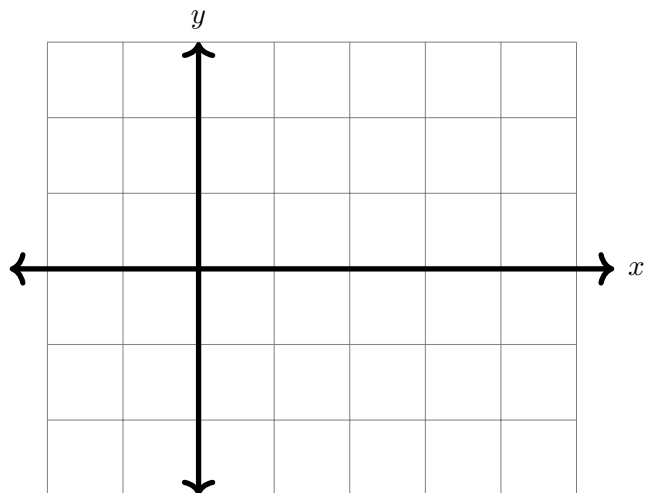
2. (5 points) Draw a dotted graph of  $y = \sin x$  over the interval  $[0, 2\pi]$ , then clearly complete the chart below to graph  $y = 2\sin(0.5x - \pi)$  below. Mark all relevant information.

Amplitude	
Horizontal Shift	
Vertical Shift	



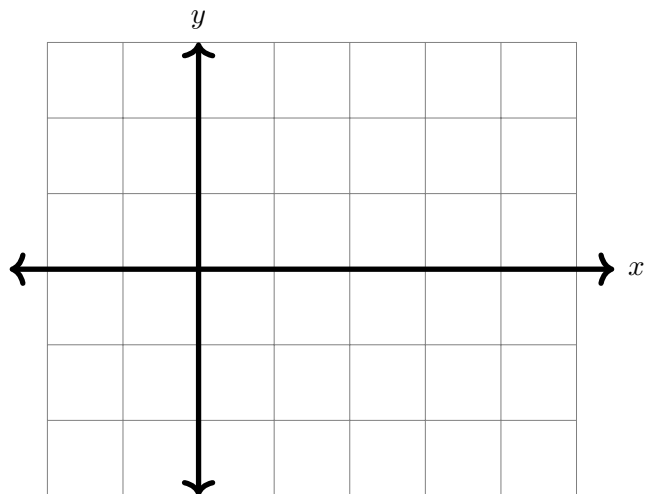
3. (5 points) Draw a dotted graph of  $y = \cos x$  over the interval  $[0, 2\pi]$ , then clearly complete the chart below to graph  $y = -2\cos(0.5\pi x)$  below. Mark all relevant information.

Amplitude	
Horizontal Shift	
Vertical Shift	

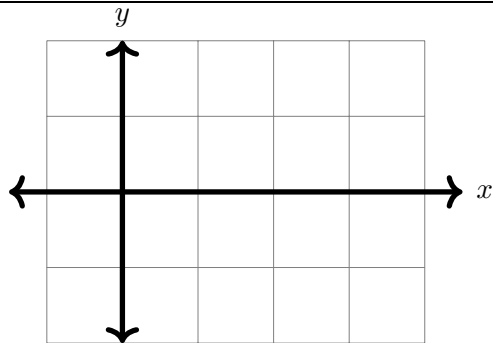


4. (6 points) Draw a dotted graph of  $y = \csc x$  over the interval  $[0, 2\pi]$ , then clearly complete the chart below to graph  $y = -2\csc(0.5x)$  below. Mark all relevant information.

Amplitude	
Horizontal Shift	
Vertical Shift	

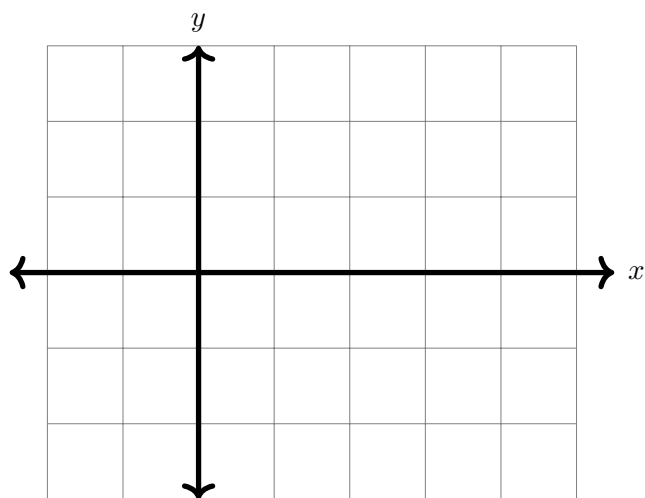


5. (2 points) Draw  $y = \sin^2 x + \cos^2 x$  over  $[0, 2\pi]$ .



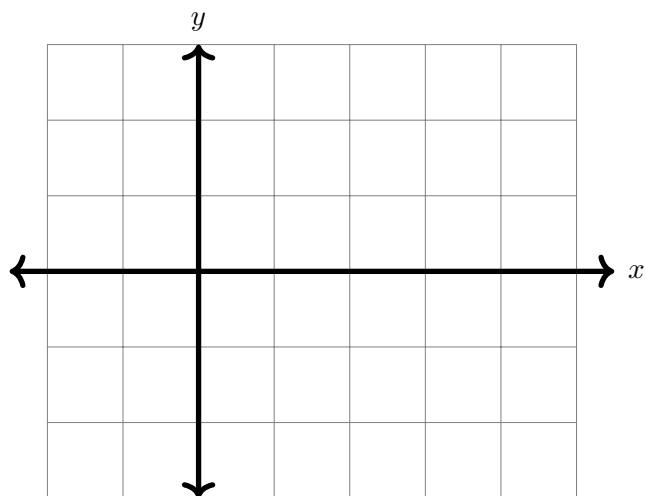
6. (6 points) Draw a dotted graph of  $y = \sec x$  over the interval  $[-\pi/2, 3\pi/2]$ , then clearly complete the chart below to graph  $y = 1 + \sec(x - \pi/2)$  below. Mark all relevant information.

Amplitude	
Horizontal Shift	
Vertical Shift	



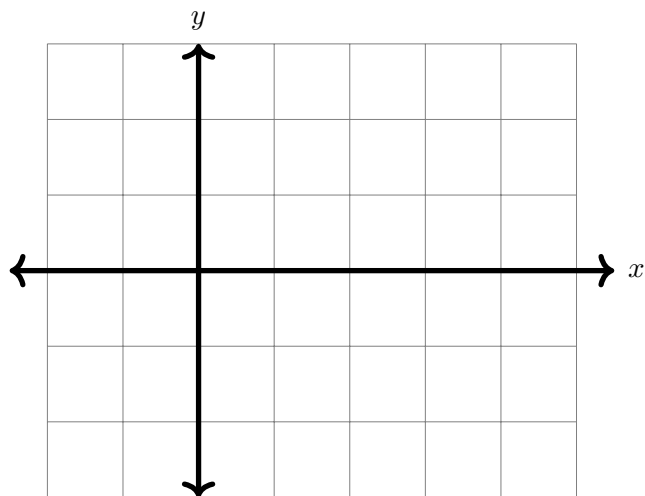
7. (6 points) Draw a dotted graph of  $y = \tan x$  over the interval  $[-\pi/2, \pi/2]$ , then clearly complete the chart below to graph  $y = \tan(0.25x - \pi)$  below. Mark all relevant information.

Amplitude	
Horizontal Shift	
Vertical Shift	



8. (7 points) Draw a dotted graph of  $y = \cot x$  over the interval  $[0, \pi]$ , then clearly complete the chart below to graph  $y = -1 + \cot(x - \pi)$  below. Mark all relevant information.

Amplitude	
Horizontal Shift	
Vertical Shift	



9. (8 points) Draw a dotted graph of  $y = \tan x$  over the interval  $[-\pi/2, \pi/2]$ , then clearly complete the chart below to graph  $y = \tan(-0.25\pi x)$  below. Mark all relevant information.

Amplitude	
Horizontal Shift	
Vertical Shift	

