STRETCHES

TEXT: 5.2

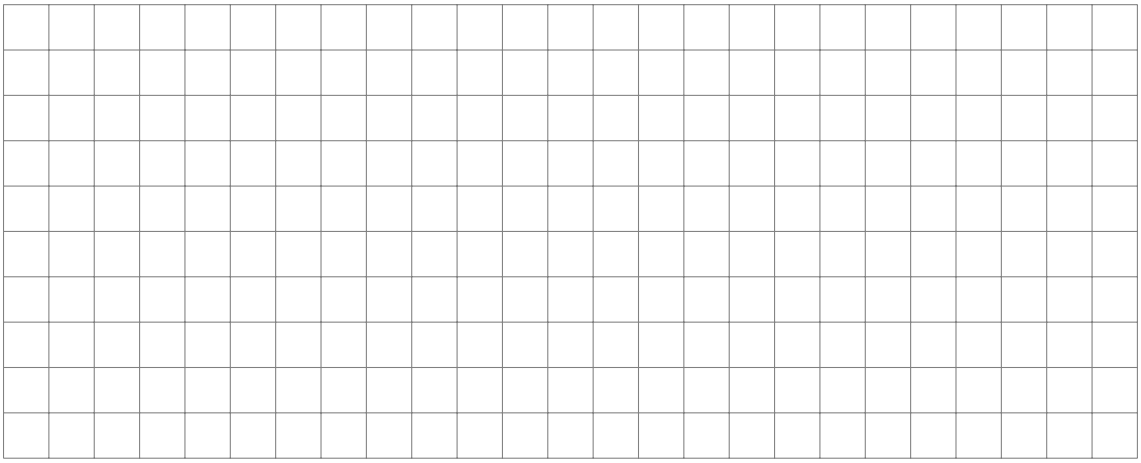
LAST NAME	FIRST NAME	DATE

1 (3 points)**.** Graph one full period of the function

$$y(x) = \sin(x/2)$$

Identify coordinates of 5 points within that period by placing them on grid intersections.

Period: Amplitude:

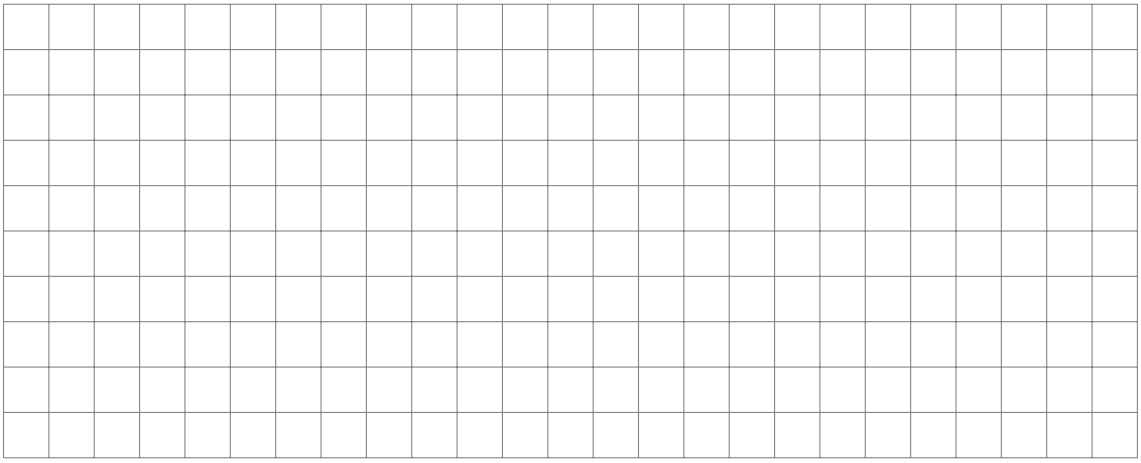


2 (3 points)**.** Graph one full period of the function

$$y(x) = -4\cos(x)$$

Identify coordinates of 5 points within that period by placing them on grid intersections.

Period: Amplitude: Reflection(s)?

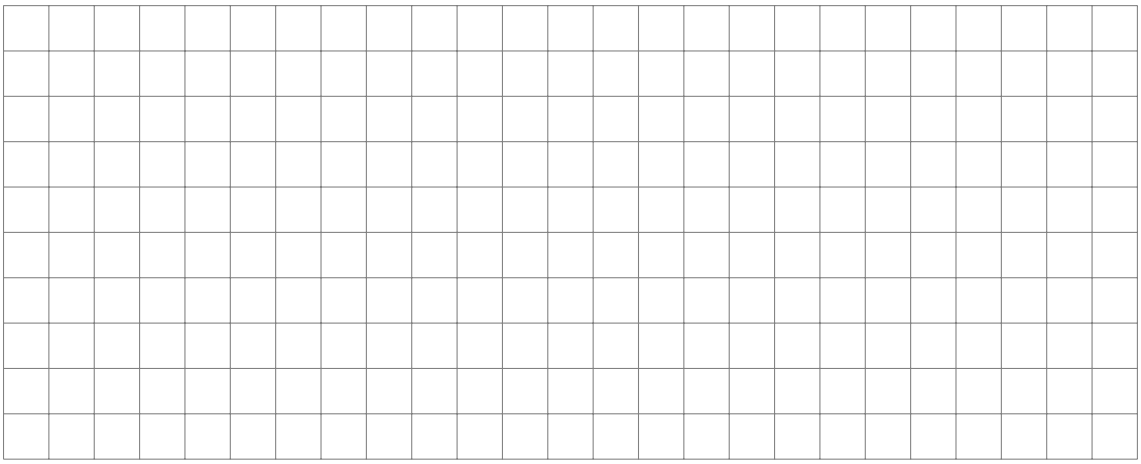


3 (3 points)**.** Graph one full period of the function

$$y(x) = \tan(3x)$$

Identify coordinates of 3 points within that period by placing them on grid intersections.

Period: Vertical Stretch:

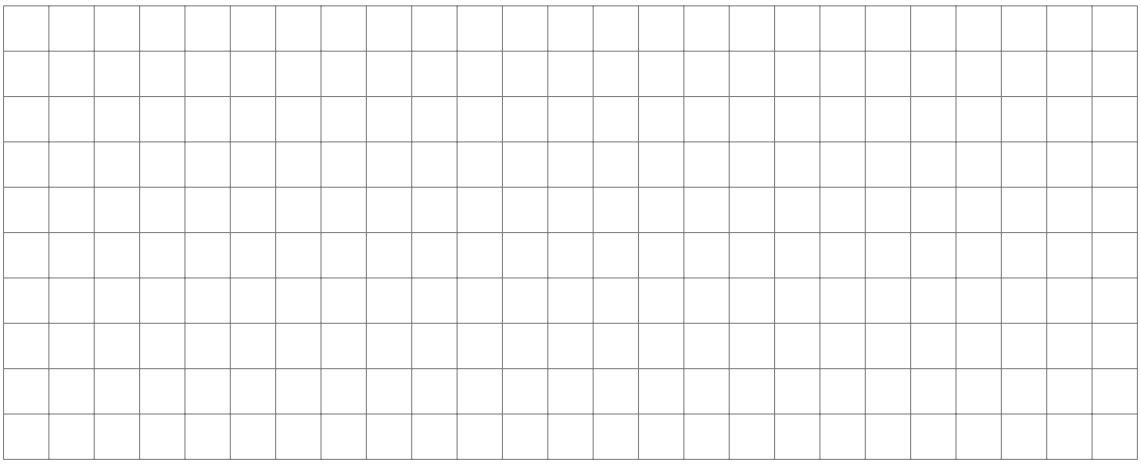


4 (3 points)**.** Graph one full period of the function

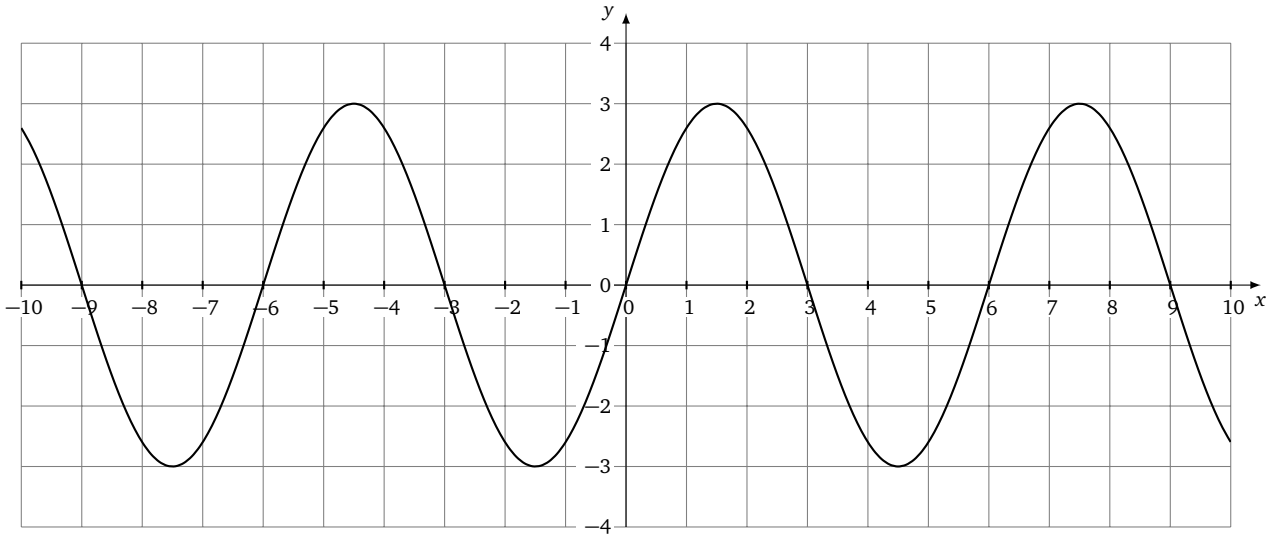
$$y(x) = \frac{1}{3}\sin(2x)$$

Identify coordinates of 5 points within that period by placing them on grid intersections.

Period: Amplitude:

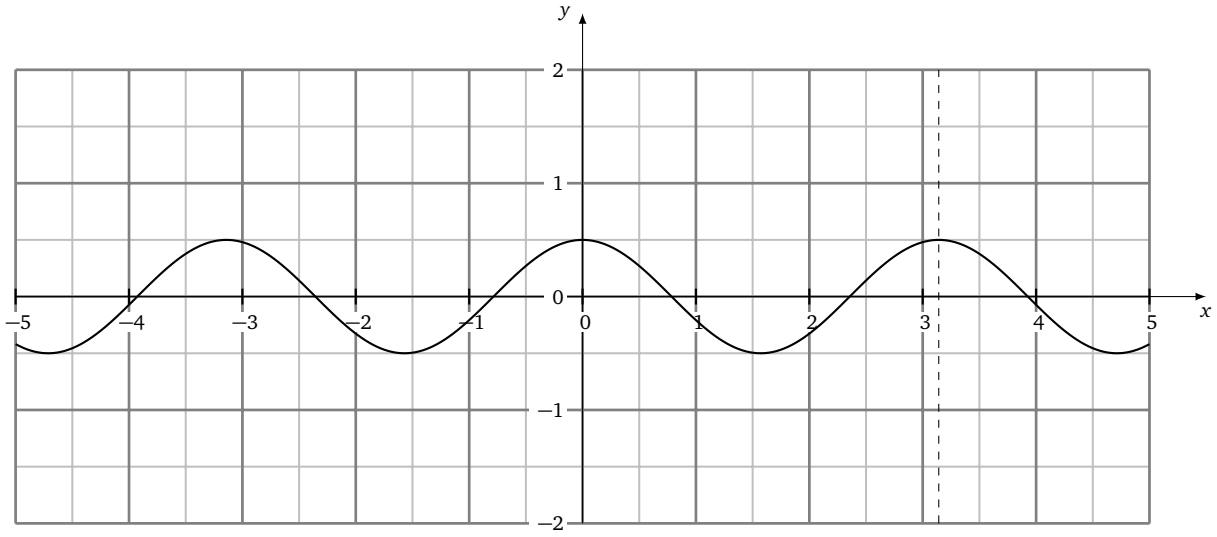


5 (4 points). Find an expression for the shown function.



Period: Amplitude: Expression:

6 (4 points). Find an expression for the shown function.



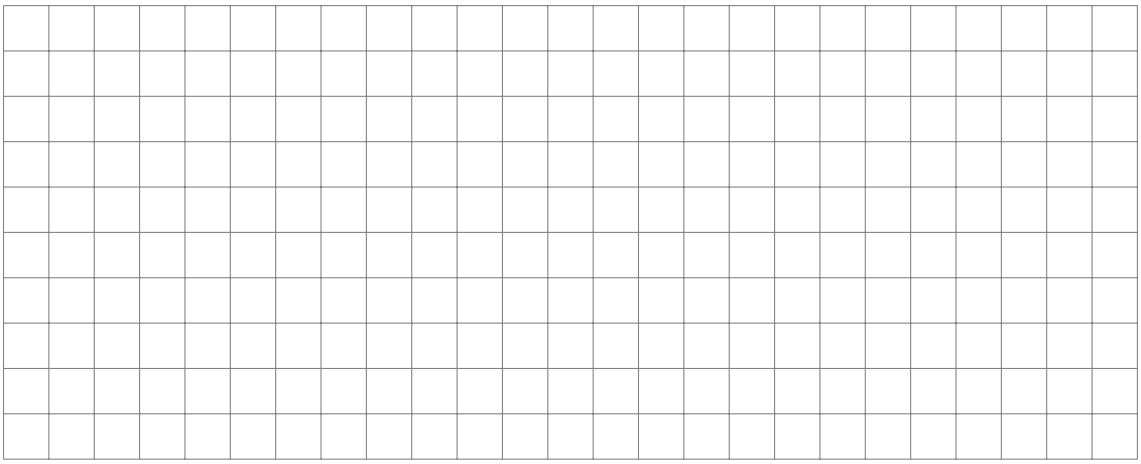
Period: Amplitude: Expression:

7 (3 points). Graph one full period of the function

$$y(x) = 10\tan(-\pi x)$$

Identify coordinates of 3 points within that period by placing them on grid intersections.

Period: Vertical Stretch: Reflection(s)?



8 (3 points). Graph one full period of the function

$$y(x) = 5\cos\left(\frac{\pi}{4}x\right)$$

Identify coordinates of 5 points within that period by placing them on grid intersections.

Period: Amplitude: