MORE GRAPHS

TEXT: 5.3, 5.6

LAST NAME	FIRST NAME	DATE

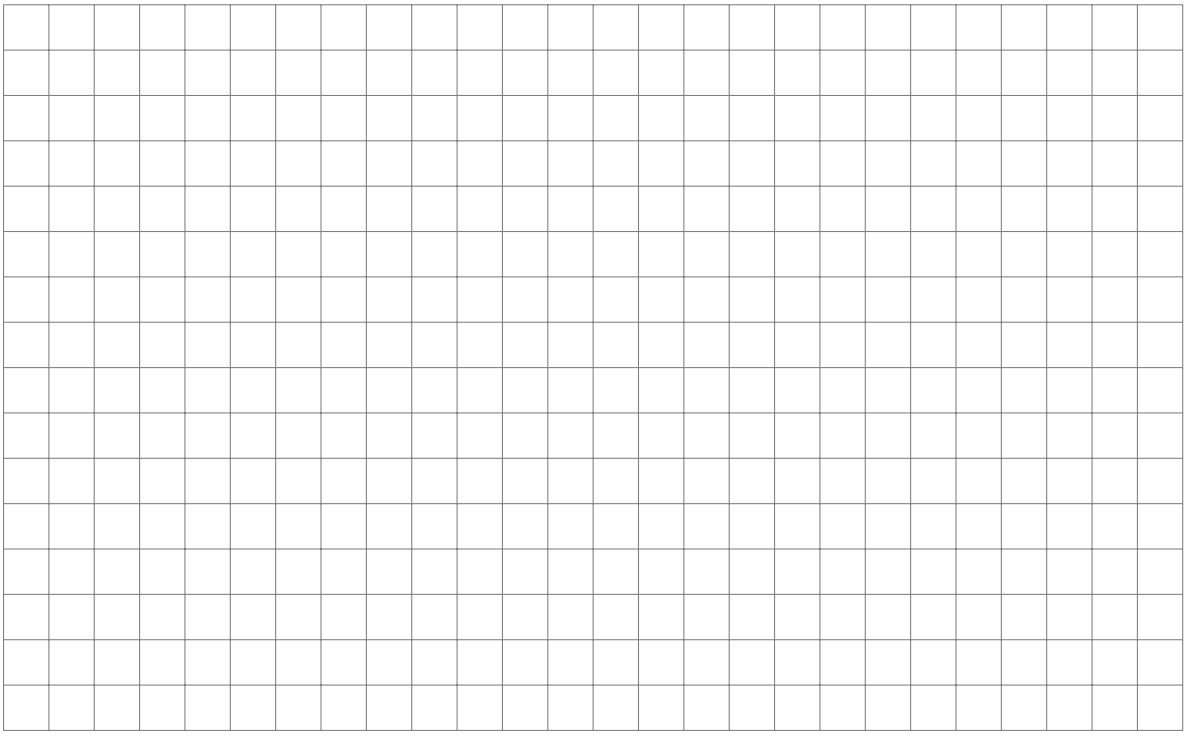
1 (6 points). Let

$$f(x) = 7\sec(x) - 2$$

Find:

- vertical stretch:
- phase shift:
- period:
- midline:
- step size:
- reflection(s):

Graph one full period of the function, identify coordinates of 2 points within that period by placing them on the grid intersections.



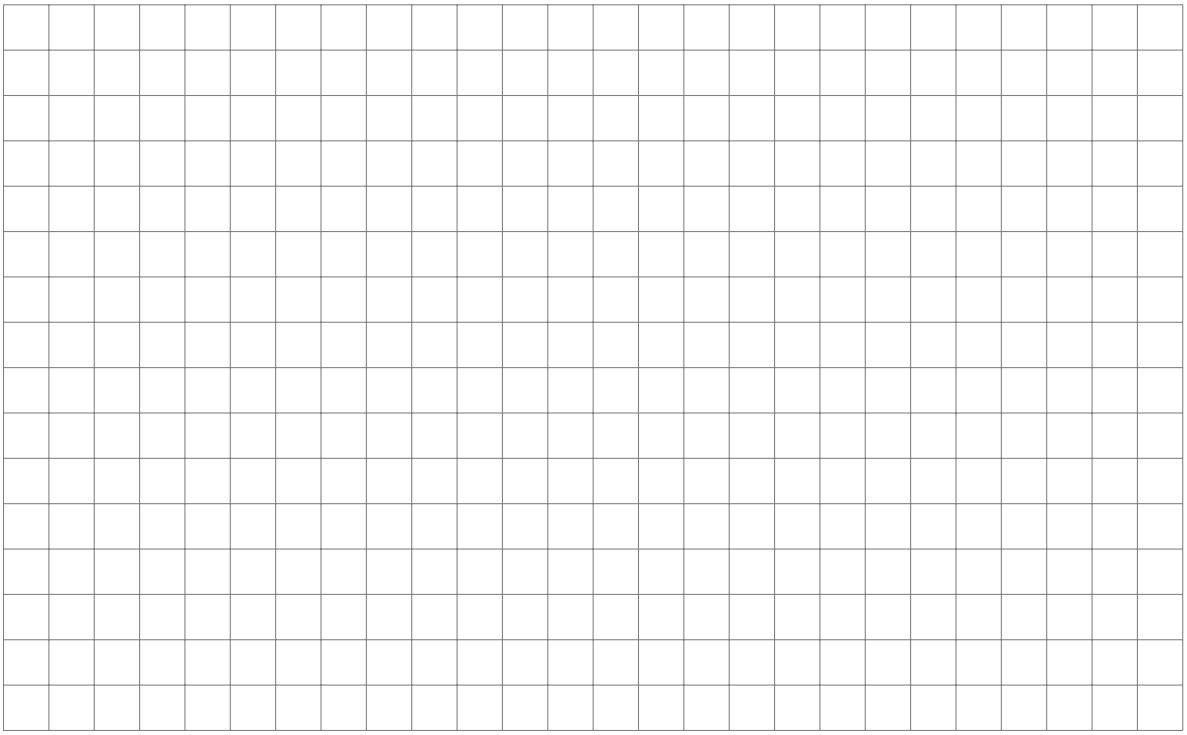
2 (6 points)**.** Let

$$f(x) = -\cot(x + \pi/4)$$

Find:

- vertical stretch:
- phase shift:
- period:
- midline:
- step size:
- reflection(s):

Graph two full periods of the function, identify coordinates of 3 points within each period by placing them on the grid intersections.



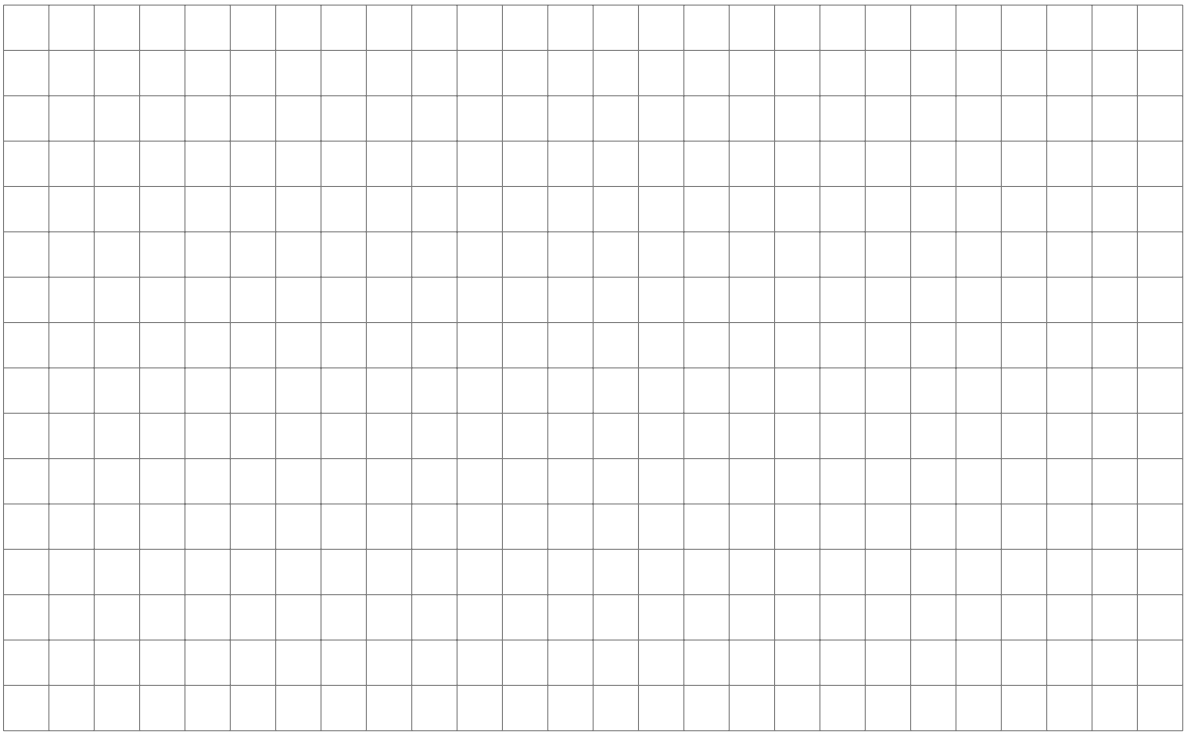
3 (6 points)**.** Let

$$f(x) = \frac{1}{4}\csc(x/2) + \frac{3}{4}$$

Find:

- vertical stretch:
- phase shift:
- period:
- midline:
- step size:
- reflection(s):

Graph two full periods of the function, identify coordinates of 2 points within each period by placing them on the grid intersections.



4 (6 points). Let $f(x) = -2\cos(6x)$ and $g(x) = -2\sec(6x)$.

Find the following (all the same for both functions):

- vertical stretch:
- phase shift:
- period:
- midline:
- step size:
- reflection(s):

Graph two full periods of each function on the same grid, identify coordinates of appropriate anchor points within each period by placing them on the grid intersections.