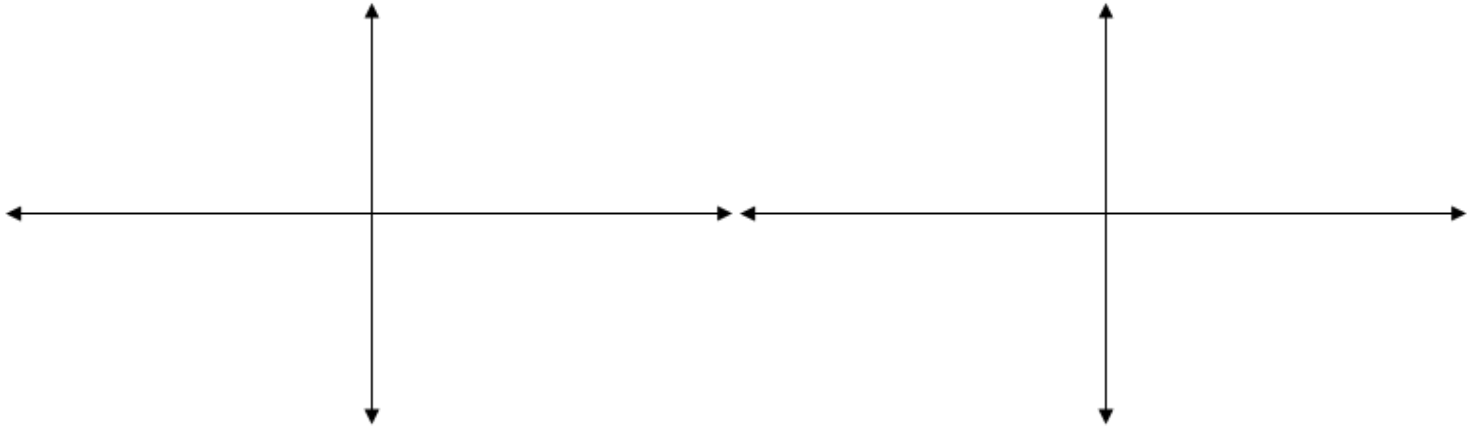


Graph all six trigonometric functions from  $-2\pi$  to  $2\pi$ . Label the axes.

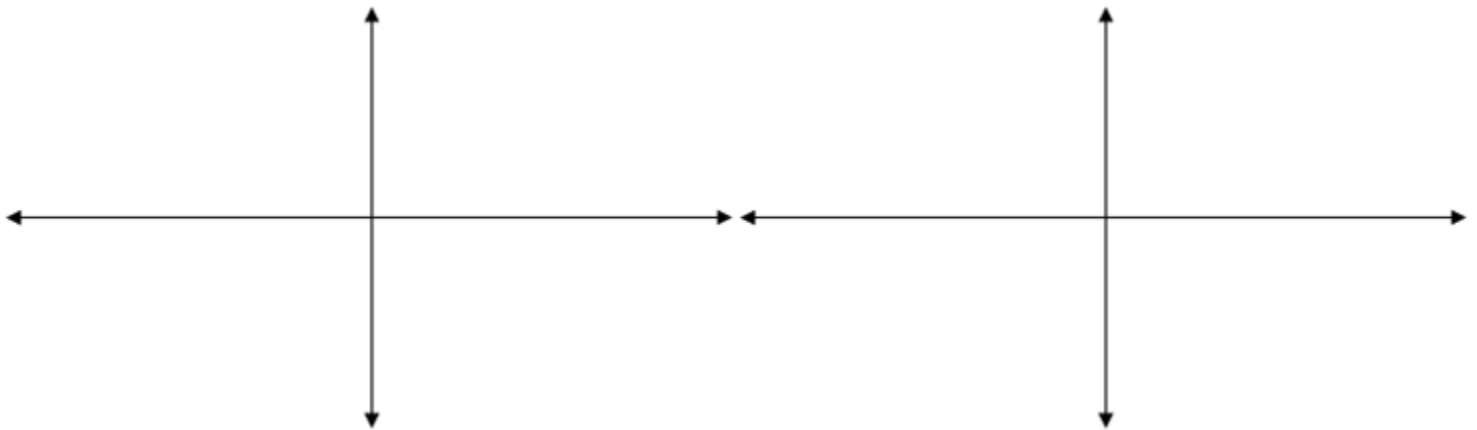
1)  $f(t) = \sin t$

2)  $f(t) = \cos t$



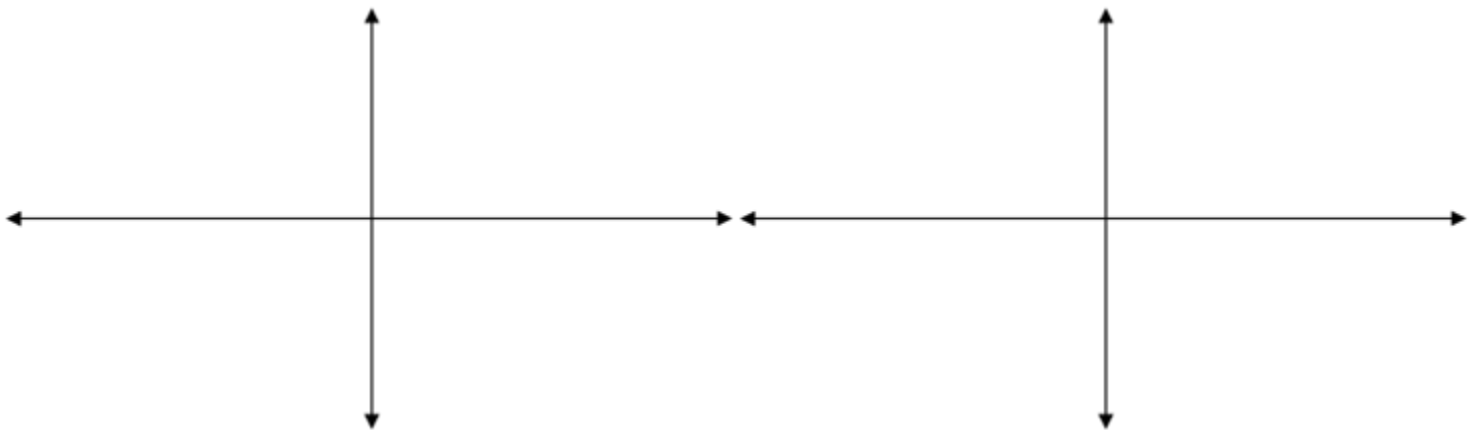
3)  $f(t) = \sec t$

4)  $f(t) = \tan t$



5)  $f(t) = \cot t$

6)  $f(t) = \csc t$



- 7) Which trig graphs have domain  $(-\infty, \infty)$ ? \_\_\_\_\_
- 8) Which trig graphs have domain  $\left\{ \text{Multiples of } x \neq \frac{\pi}{2} \right\}$ ? \_\_\_\_\_
- 9) Which trig graphs have domain  $\left\{ \text{Multiples of } x \neq \pi \right\}$ ? \_\_\_\_\_
- 10) Which trig graphs have range  $(-\infty, \infty)$ ? \_\_\_\_\_
- 11) Which trig graphs have range  $[-1, 1]$ ? \_\_\_\_\_
- 12) Which trig graphs have range  $(-\infty, -1] \cup [1, \infty)$ ? \_\_\_\_\_
- 13) Which trig graphs intercept the y-axis at the origin? \_\_\_\_\_
- 14) Which trig graphs intercept the y-axis at  $(0, 1)$ ? \_\_\_\_\_
- 15) Which trig graphs have asymptotes at the origin? \_\_\_\_\_
- 16) Which trig graphs have asymptotes at  $\frac{\pi}{2}$ ? \_\_\_\_\_
- 17) Which trig graphs are EVEN functions? \_\_\_\_\_
- 18) Which trig graphs are ODD functions? \_\_\_\_\_
- 19) Which trig graphs have a period length of  $2\pi$ ? \_\_\_\_\_
- 20) Which trig graphs have a period length of  $\pi$ ? \_\_\_\_\_