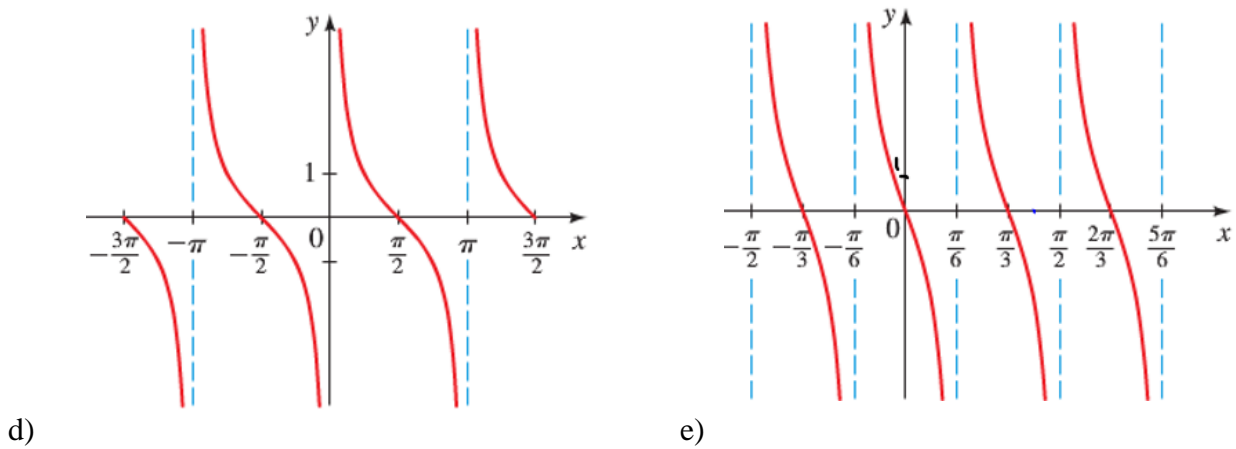
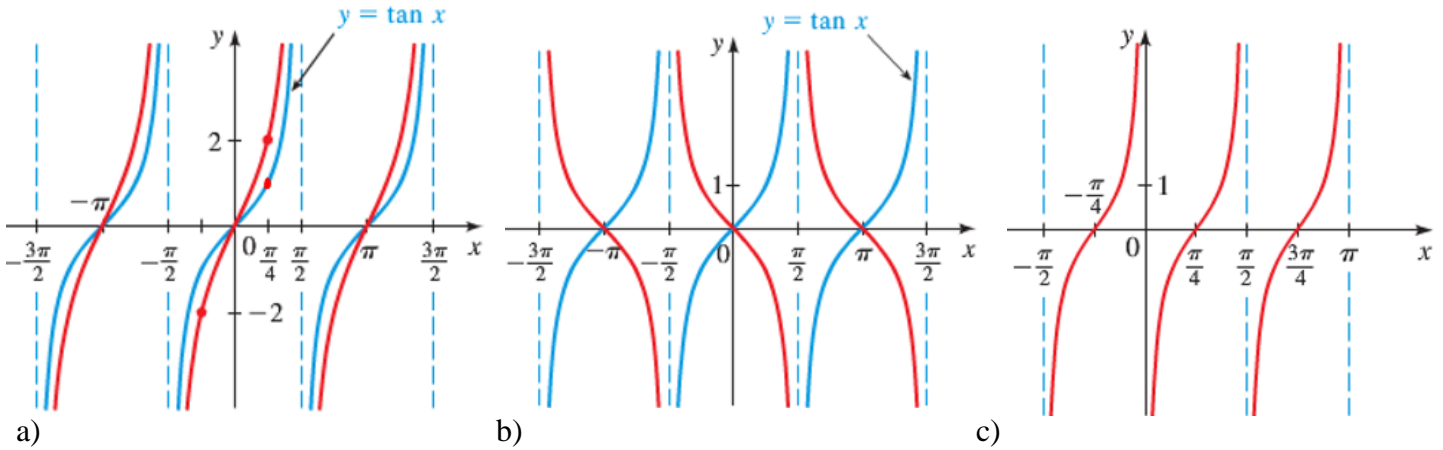


5.6 In-class Practice

1. State transformations of the basic function needed to obtain each graph. Then write its equation.



2. Match the trigonometric function with one of the graphs I-IV.

a) $f(x) = \tan\left(x + \frac{\pi}{4}\right)$

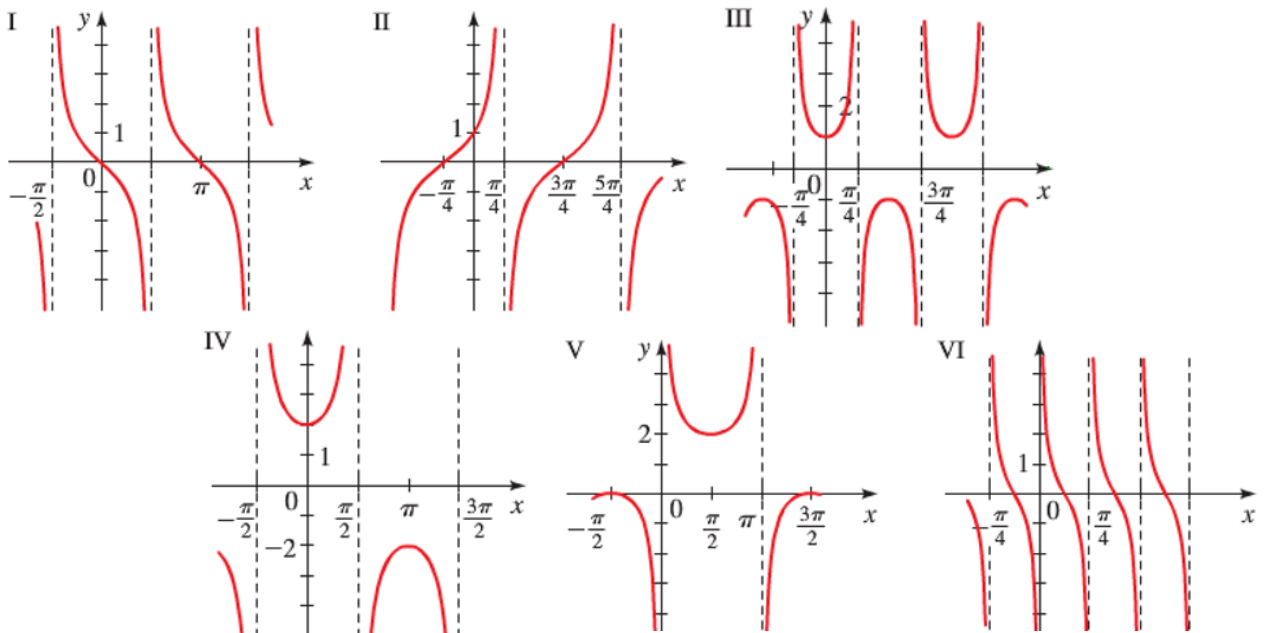
b) $f(x) = \sec 2x$

c) $f(x) = \cot 2x$

d) $f(x) = -\tan x$

e) $f(x) = 2 \sec x$

f) $f(x) = 1 + \csc x$



5.6 In-class Practice

3. Find the period, and graph the function.

a) $y = 2 \cot x$

b) $y = \frac{1}{2} \csc x$

c) $y = \tan\left(x - \frac{\pi}{4}\right)$

d) $y = 2 \tan\left(\frac{\pi}{2}x\right)$

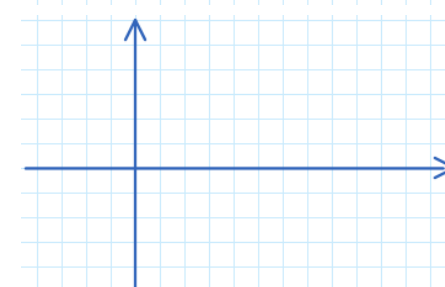
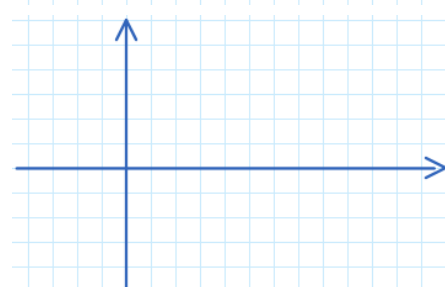
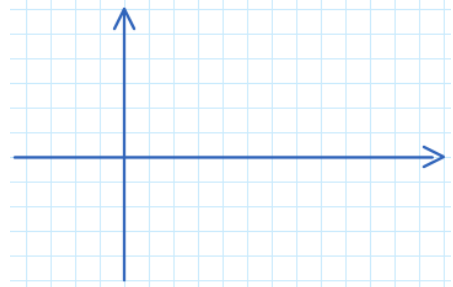
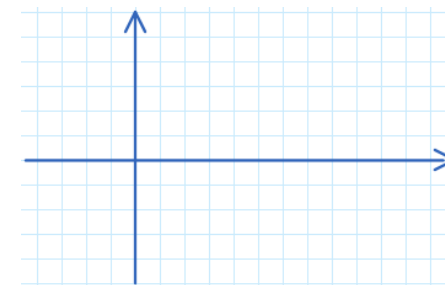
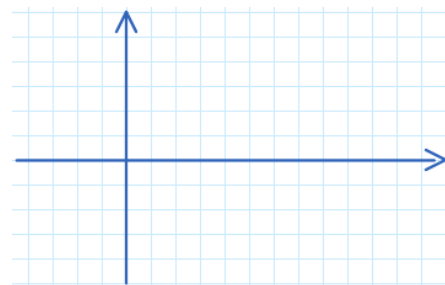
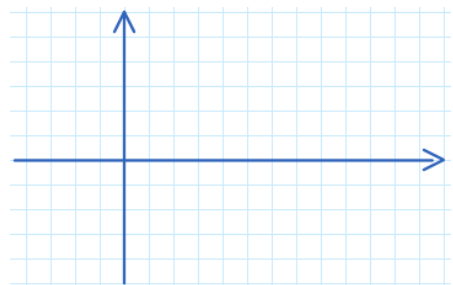
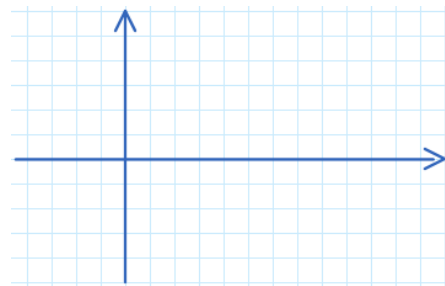
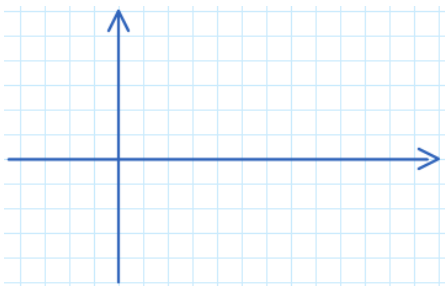
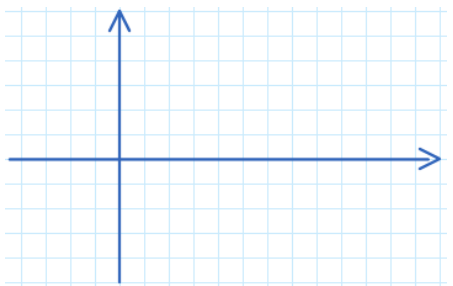
e) $y = \csc\left(\frac{1}{2}x\right)$

f) $y = \sec\left(x + \frac{\pi}{4}\right)$

g) $y = \cot\left(2x - \frac{\pi}{2}\right)$

h) $y = \frac{1}{2} \tan(\pi x - \pi)$

i) $y = 1 - \cot x$



4. Graph.

a) $f(x) = |x| \sin x$

b) $f(x) = 2^{-x} \sin x$

