4.5 Assignment:

Locate the vertical asymptotes, and sketch the graph of each function. (Examples 1-4)

1. $y=2 \tan x$
2. $y=\tan \left(x+\frac{\pi}{4}\right)$
3. $y=\cot \left(x-\frac{\pi}{6}\right)$
4. $y=-3 \tan \frac{x}{3}$
5. $y=-\frac{1}{4} \cot x$
6. $y=-\tan 3 x$
7. $y=-2 \tan (6 x-\pi)$
8. $y=\cot \frac{x}{2}$
9. $y=\frac{1}{5} \csc 2 x$
10. $y=\csc \left(4 x+\frac{7 \pi}{6}\right)$
11. $y=\sec (x+\pi)$
12. $y=-2 \csc 3 x$
13. $y=4 \sec \left(x-\frac{3 \pi}{4}\right)$
14. $y=\sec \left(\frac{x}{5}+\frac{\pi}{5}\right)$
15. $y=\frac{3}{2} \csc \left(x-\frac{2 \pi}{3}\right)$
16. $y=-\sec \frac{x}{8}$
