

Find the vertical asymptotes of the following functions:

1) $y = \csc\left(3x + \frac{\pi}{6}\right) + 3$

2) $y = \sec x + 3$

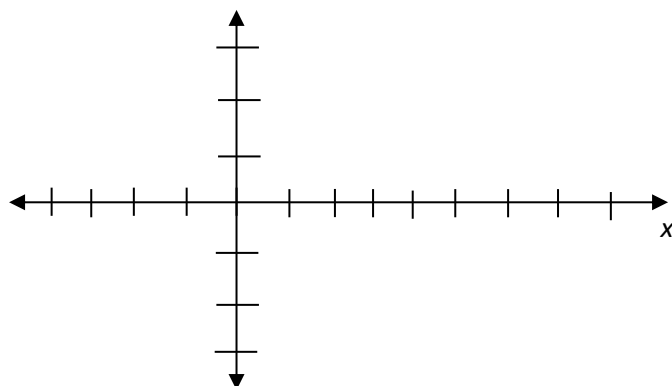
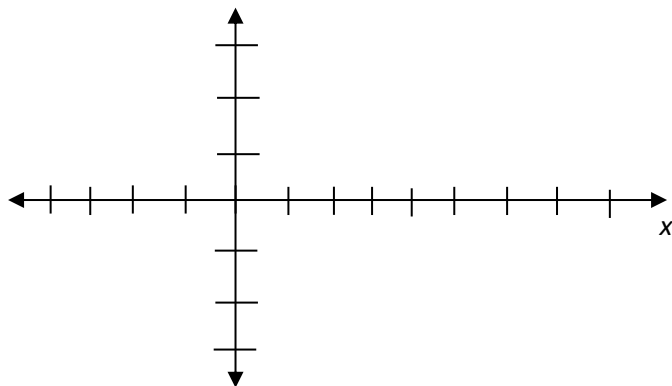
3) $y = \sec\left(x - \frac{\pi}{2}\right) + 4$

4) $f(x) = \csc \frac{x}{3} - 2$

Sketch a graph of the following functions:

5) $y = 4\sec(x - \pi)$

6) $y = -2\csc 3x$



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