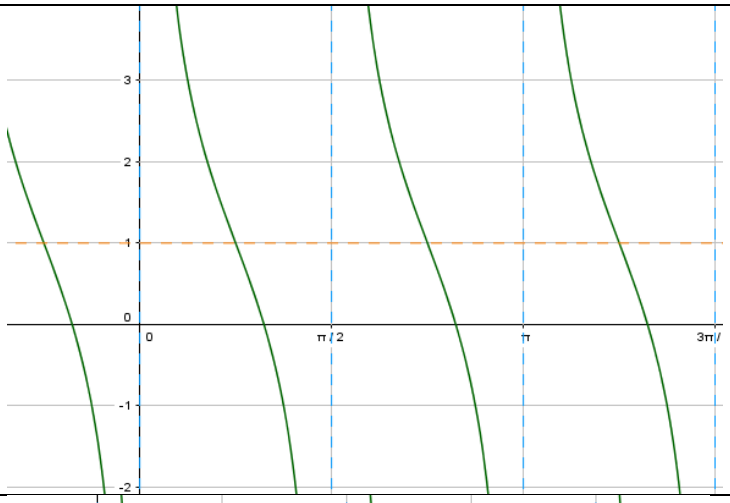
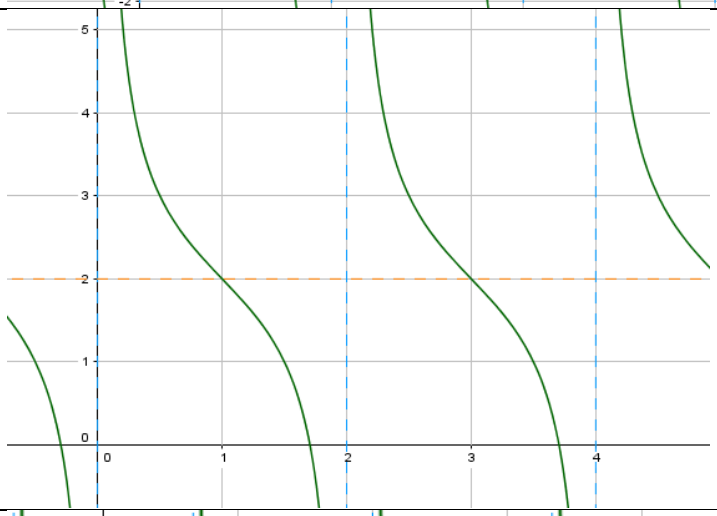
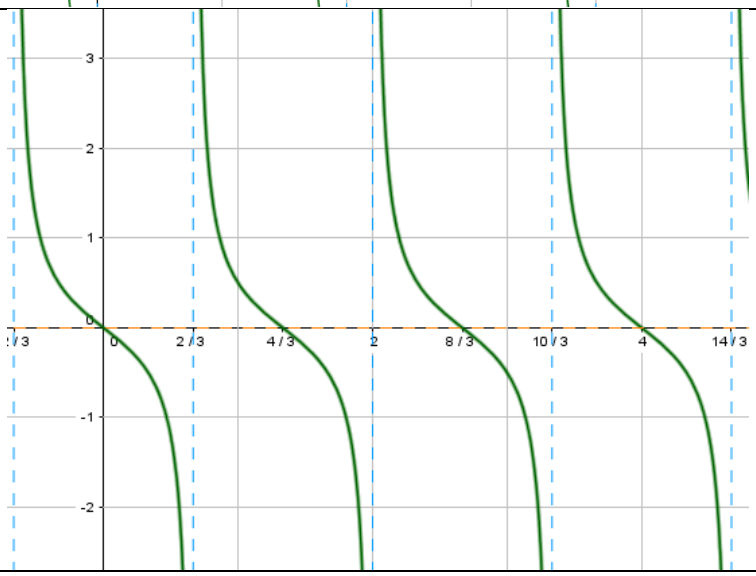
VD unit 4 topic 6 part 2

Graph the following cotx functions, identify the period of the function as well as the vertical asymptotes

$f(x)=2\cot(2x-\pi)+1$		period: $\frac{\pi}{2}$ V.A.s: $x=\frac{\pi}{2}+\frac{k\pi}{2}$
$f(x)=\cot(\frac{\pi x}{2}-3\pi)+2$		period : 2 V.A.s: $x=2k$
$f(x)=\frac{1}{2}\cot(\frac{3\pi x}{4}-\frac{3\pi}{2})$		period : $\frac{4}{3}$ V.A.s: $x=2+\frac{4}{3}k$

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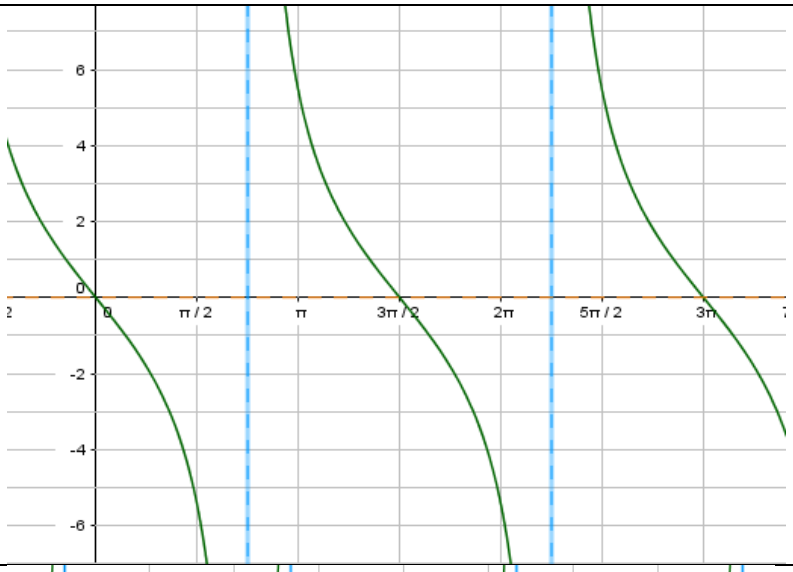
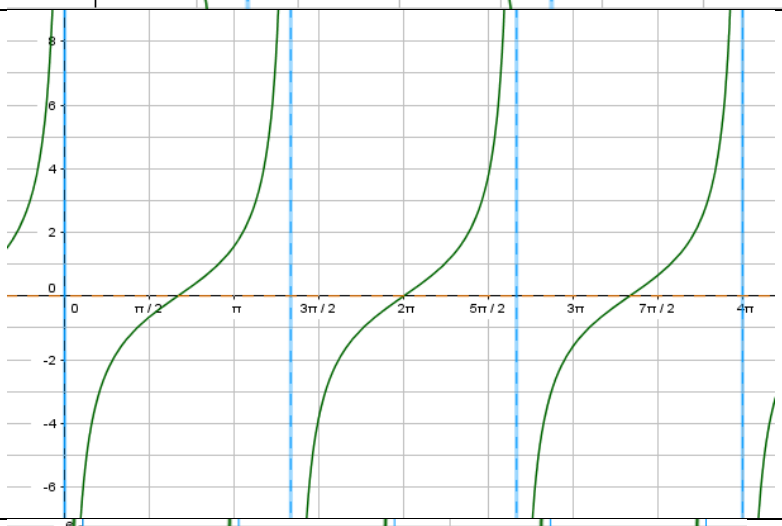
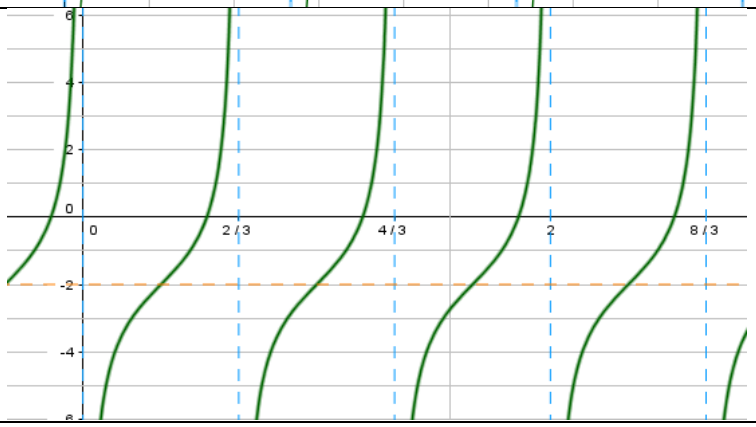
$f(x)=\pi\cot(\frac{2}{3}x+\frac{\pi}{2})$		period : $\frac{3}{2}\pi$ V.A.s: $x=-\frac{3\pi}{4}+\frac{3\pi}{2}k$
$f(x)=-\frac{\pi}{2}\cot(\frac{3}{4}x+\pi)$		period : $\frac{4}{3}\pi$ V.A.s: $x=\frac{4\pi}{3}k$
$f(x)=-\frac{3}{2}\cot(\frac{3}{2}\pi x+\pi)-2$		period : $\frac{2}{3}$ V.A.s: $x=\frac{2}{3}k$

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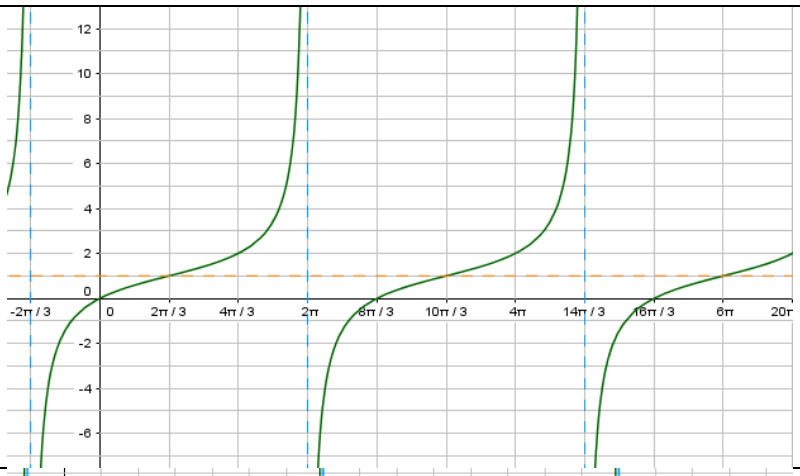
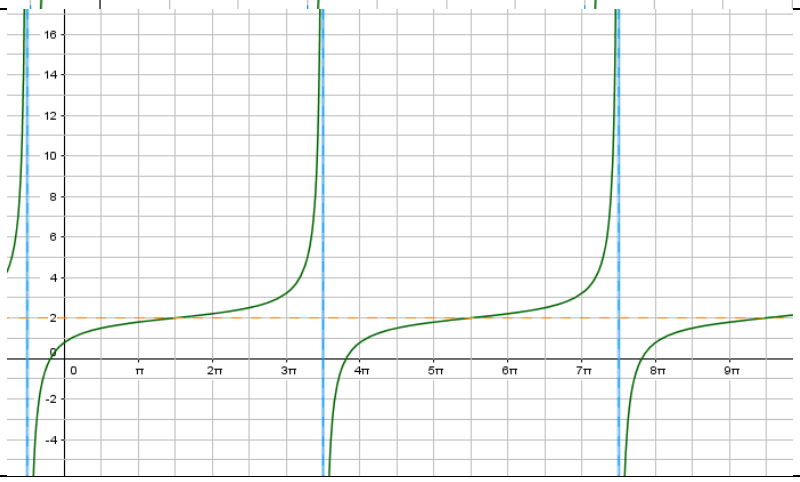
$f(x)=-\cot(\frac{3}{8}x+\frac{\pi}{4})+1$		period : $\frac{8}{3}\pi$ V.A.s: $x=-\frac{2}{3}\pi+\frac{8}{3}\pi k$
$f(x)=-\frac{1}{2}\cot(\frac{1}{4}x+\frac{\pi}{8})+2$		period : 4π V.A.s: $x=-\frac{1}{2}\pi+4\pi k$