

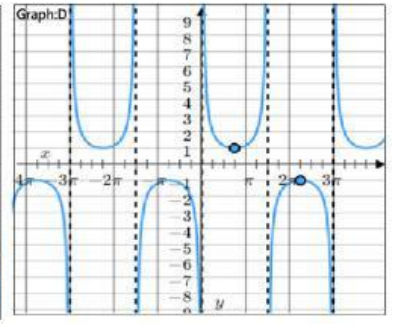
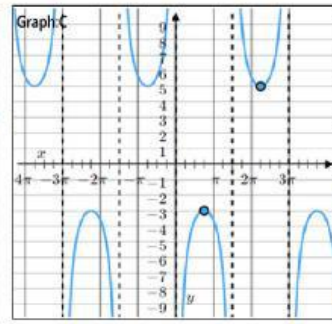
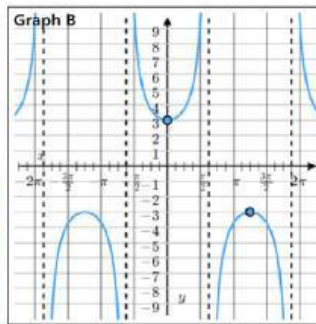
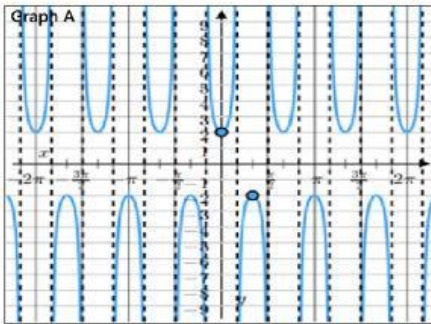
Objectives

Graph and analyze
Tan ,cotan and
reciprocal
trigonometric
functions

Alef-158

1. Graph the secant function $y = 2 \cdot \sec(-3x)$

Graph:

amplitude : period : °Vertical asymptote 

2. Two consecutive vertical asymptotes of the tangent function ,

 $y = \tan(2x)$ are:

a. $x = -\frac{\pi}{8}$ and $x = \frac{\pi}{8}$

b. $x = -\frac{\pi}{2}$ and $x = \frac{\pi}{2}$

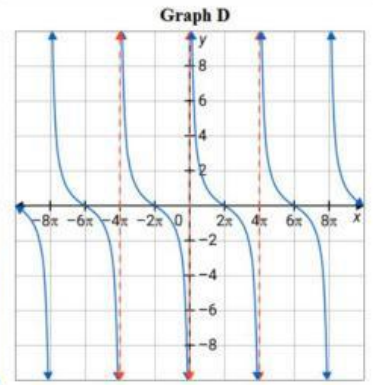
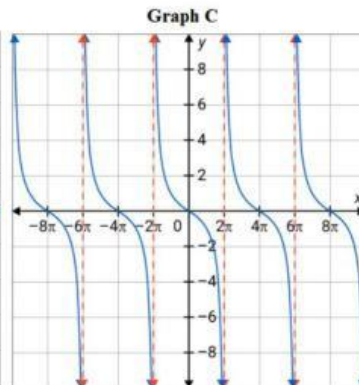
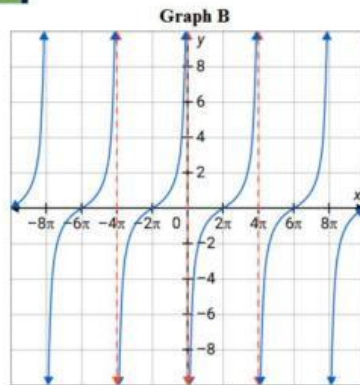
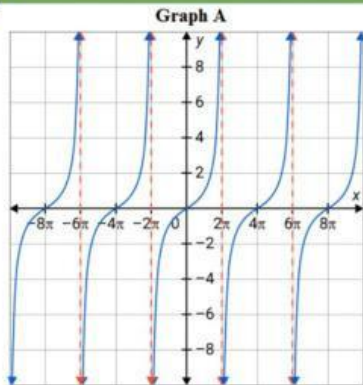
c. $x = -\pi$ and $x = \pi$

d. $x = -\frac{\pi}{4}$ and $x = \frac{\pi}{4}$



3 choose the graph of the tangent function

$$y = \tan\left(\frac{1}{4}x\right).$$

amplitude : period : °Vertical asymptote 

4. Two consecutive vertical asymptotes of the tangent function

$$y = \tan\left(x - \frac{\pi}{2}\right) \text{ are } \boxed{}$$

a. $x = 0$ and $x = \frac{\pi}{2}$

b. $x = -\frac{\pi}{2}$ and $x = \frac{\pi}{2}$

c. $x = -\pi$ and $x = \pi$

d. $x = 0$ and $x = \pi$

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5

Which of the following are asymptotes of the graph of $y=8\tan 3x$

(A) $x = \frac{\pi}{8}$

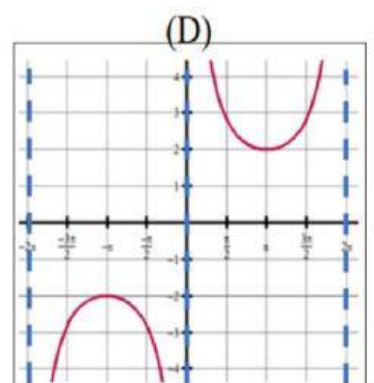
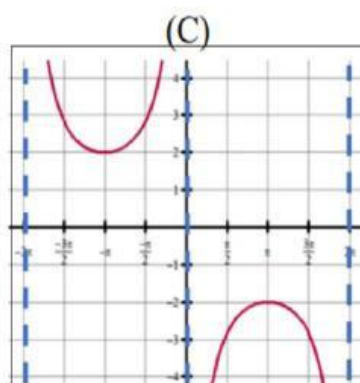
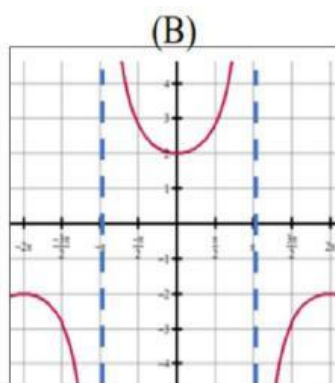
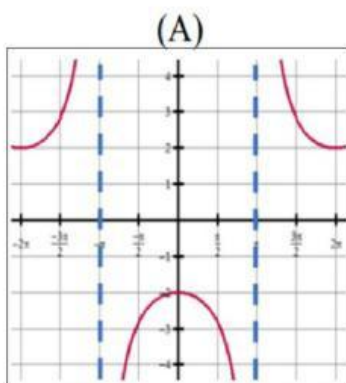
(B) $x = \frac{\pi}{4}$

(C) $x = \frac{\pi}{6}$

(D) $x = -\frac{5\pi}{8}$

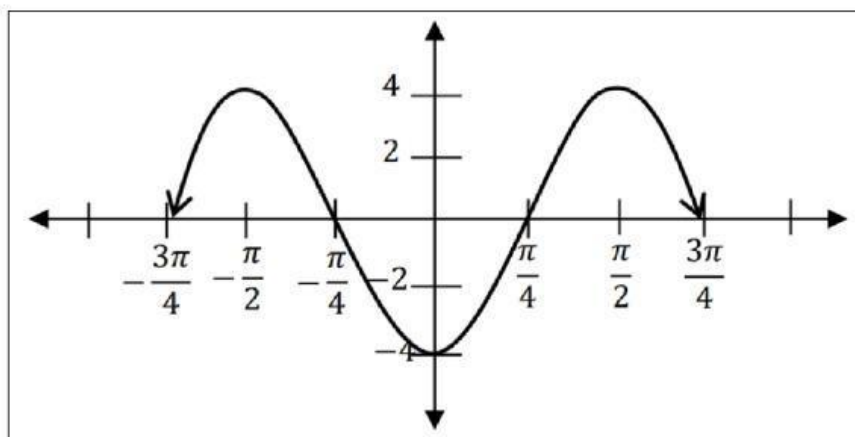
6. Which of the following is the graph of

$$f(x) = -2 \csc\left(\frac{1}{2}x\right) ?$$



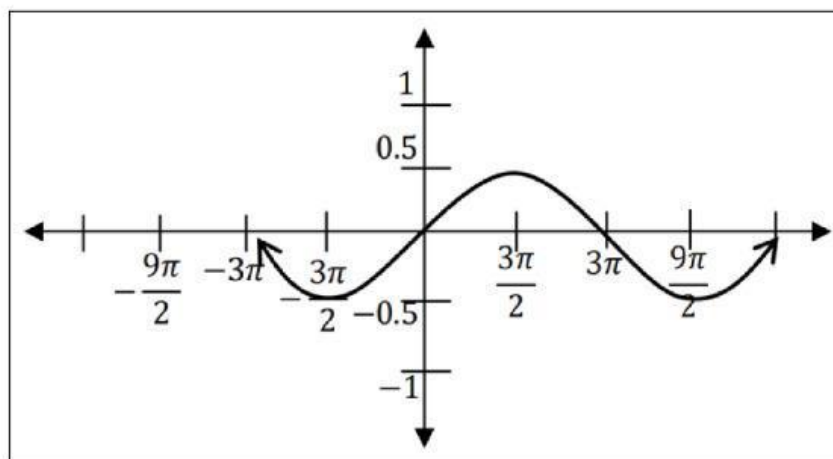
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**7. Identify the amplitude and period**

amplitude :

period :

 °


amplitude :

period :

 °