My signature on this assessment confirms I have used no outside resources and adhered to all assessment protocols assigned to this daily grade/quiz/test/exam.

Accel Precalc　　　　　　**Quiz #11**　　　　　Name _____

Unit 6: Graphs and Inverses of Trig Functions

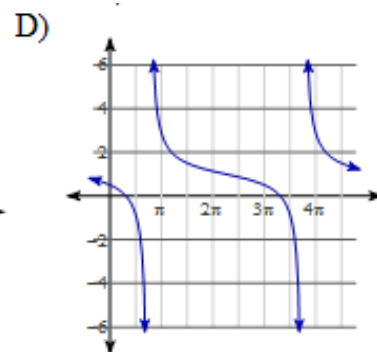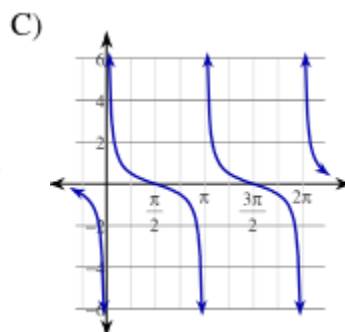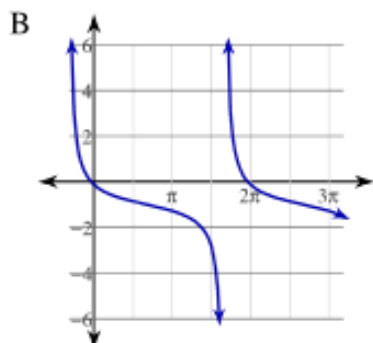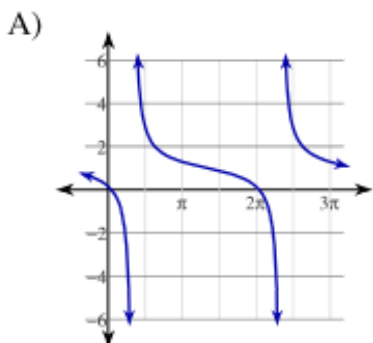Lessons 5, 6: Graphing Secant, Cosecant, Tangent, and Cotangent

NO UNIT CIRCLE. 4-FUNCTION CALCULATOR ONLY.

❖ **#1 – 8. Complete the following table.[16 total points]**

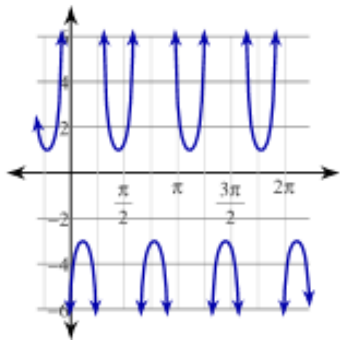| Function	Amplitude	New Period	Phase Shift with Direction	Vertical Shift with Direction
$y = -6\cot(2x - \frac{\pi}{3}) + 4$	1.	2.	3.	4.
$y = 3\sec(\frac{1}{2}x + 3\pi) - 2$	5.	6.	7.	8.

❖ **Choose the letter of the correct graph for the given equation. There is only *one* correct answer. Follow scale given on each graph. [4 pts each]**

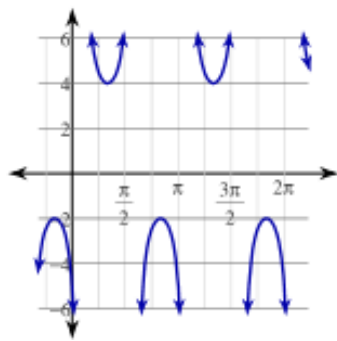_____9.　$y = \frac{1}{2} \cdot \cot\left(\frac{\theta}{2} + \frac{\pi}{6}\right) - 1$

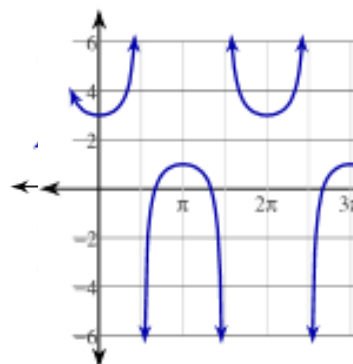A)

B

C)

D)

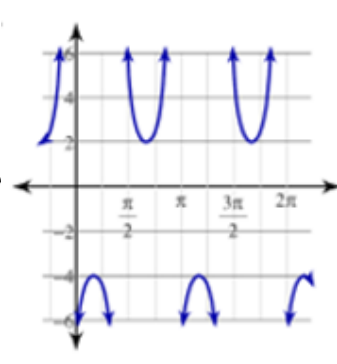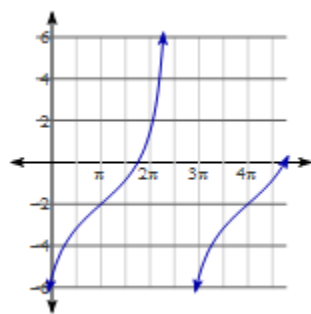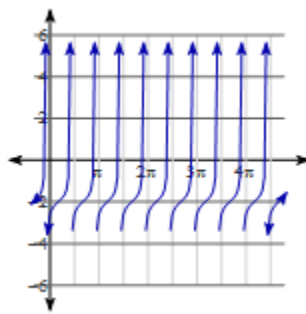_____ 10. $y = 3\sec\left(2\theta + \dfrac{2\pi}{3}\right) - 1$

A)

B)

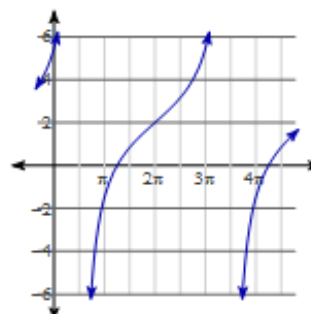')

D)

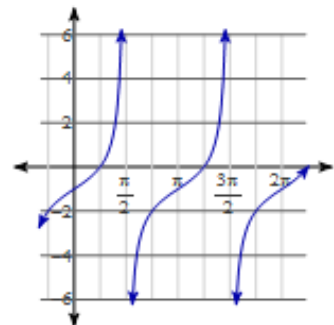_____ 11. $y = 2\tan\left(\dfrac{\theta}{3} + \dfrac{2\pi}{3}\right) - 2$

A)

B

C)

D)

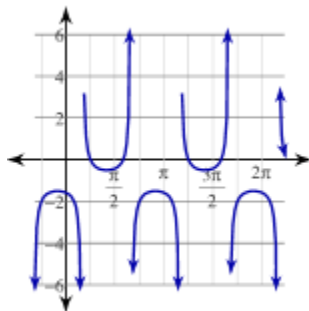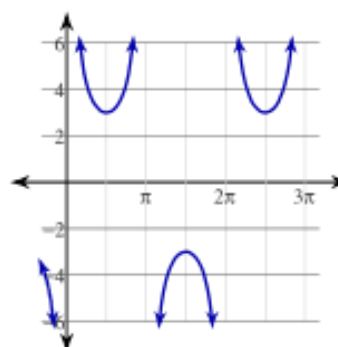_____ 12. $y = \dfrac{1}{2} \cdot \csc\left(2\theta + \dfrac{\pi}{3}\right) + 1$

A)

B)

C)

D)