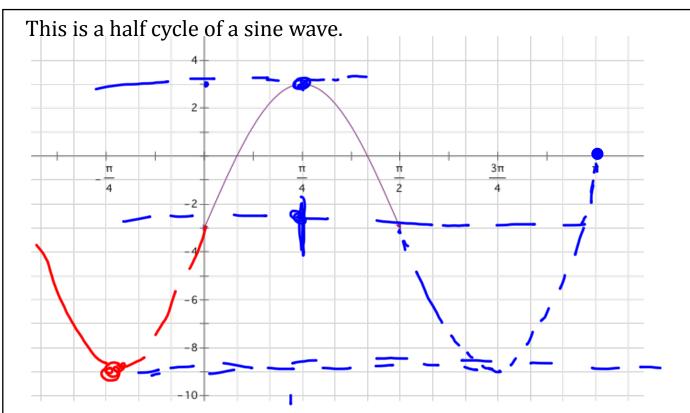
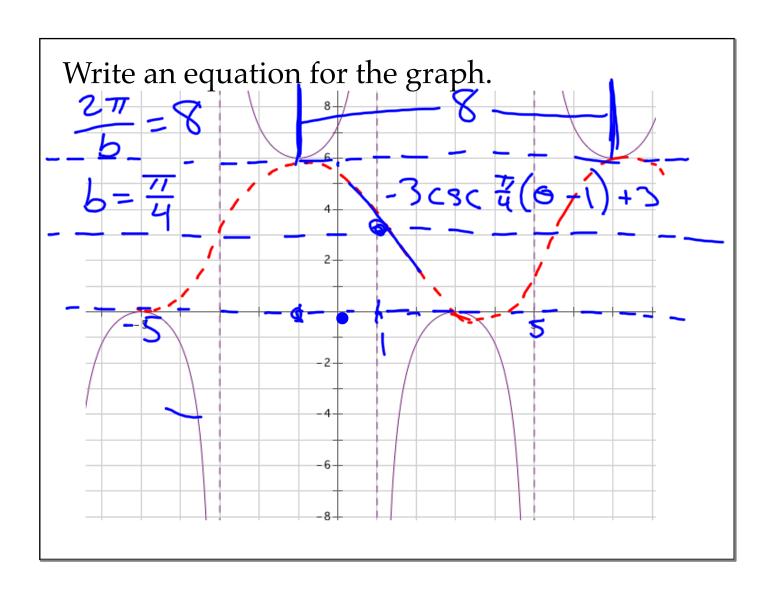
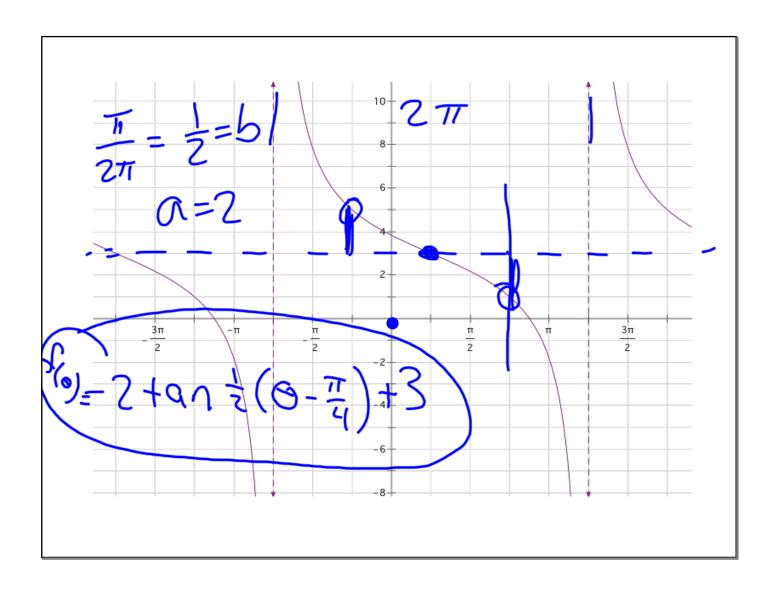
Chapter 12 Board Review

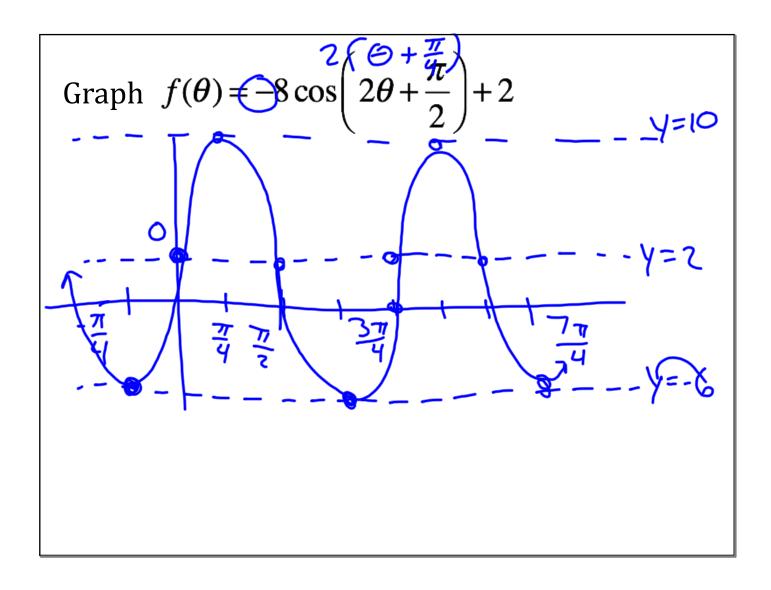
4/28/17



Write two different equations for this curve.







Graph.

$$f(\theta) = -3\tan\left(\frac{\pi}{4}\theta - \frac{\pi}{2}\right) - 1$$

Evaluate with great speed!

$$\sin\left(\frac{5\pi}{3}\right) \quad \csc\left(\frac{10\pi}{3}\right) \quad \tan\left(\frac{3\pi}{2}\right) \quad \cot(\pi)$$

Evaluate with great speed!

$$Csc^{-1}\left(-\frac{2}{\sqrt{3}}\right)$$

$$C \operatorname{os}^{-1} \left(-\frac{1}{2}\right)$$

$$Tan^{-1}\left(-\sqrt{3}\right)$$

$$Sin^{-1}(1)$$

The data describes the average temperature in Antarctica.

		ma	λ ⊁ :	-1	8)	M	lin	: -	- 7(, o	m.	-47
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Avg. Temp	-18.8	-41. 6	-65.2	-71.1	-70.6	-72.4	-75.5	-76	-74.9	-60. 0	-39.9	-17.5

Write a sinusoidal equation to approximately model the

temperature changes in Antartica.
$$(0) = 29(0)\frac{\pi}{6}(0)-47)Amp^{\frac{1}{2}} = 5 \quad 5 = \frac{\pi}{6}$$

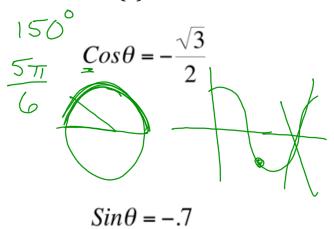
$$\frac{2\pi}{12} = b \ b = \frac{\pi}{6}$$

One complete push-up takes 3 seconds. A student starts the push-up at 20 inches above the ground and finishes the pushup at 3 inches above the ground. Write a cosine/sine equation modeling this.

tion modeling this.

$$8.5 cos \frac{27}{3} (6) + 3$$
 $8.5 cos \frac{27}{3} (6) + 3$
 $8.5 cos \frac{27}{3} (6) + 3$

Solve. Use a unit circle AND a parent graph to display your solution(s).



$$\sec \theta = -2$$

$$\tan\theta = -\frac{\sqrt{3}}{3}$$

Simplify completely. Use a unit circle OR a parent graph to show your work.

$$\cos\left(\sin^{-1}\left(-\frac{3}{4}\right)\right)$$

$$\sec\left(Tan^{-1}\left(-\sqrt{3}\right)\right)$$

$$\cos^{-1}\left(\sin\frac{7\pi}{4}\right)$$

$$\csc(\sec^{-1}2)$$

