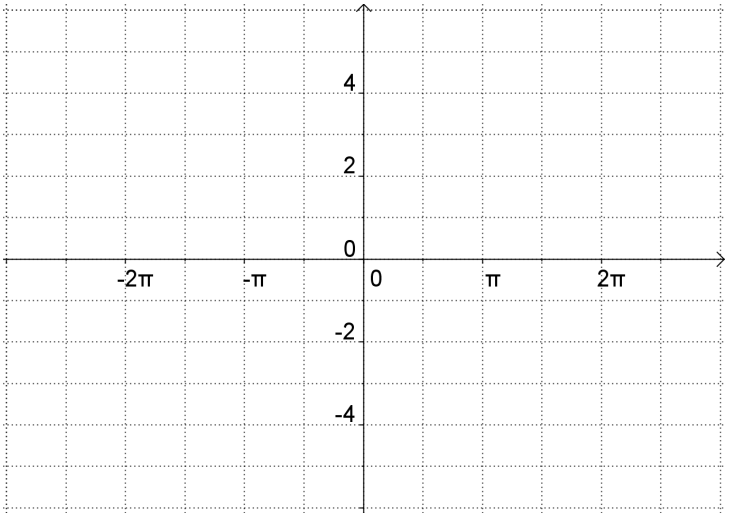
Pre-Calculus 7.6 – 7.8 Review Name _____

State the transformations in order. **Sketch the graph** of the given trig function. State the **Domain, Range, Asymptotes or Amplitude, and Period** of the function.

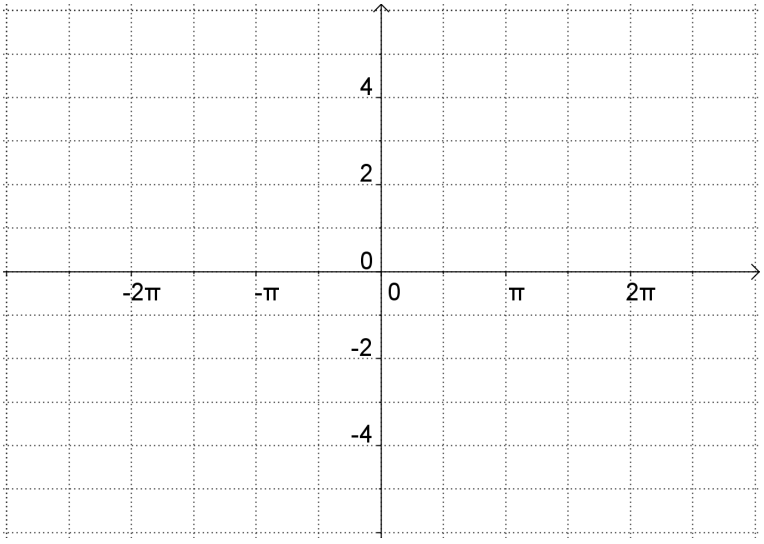
1. $f(x) = 2\tan(x) + 3$



Domain: _____ Range: _____

Asymptotes: _____ Period: _____

2. $f(x) = \cot\left(\frac{1}{2}x\right) - 1$

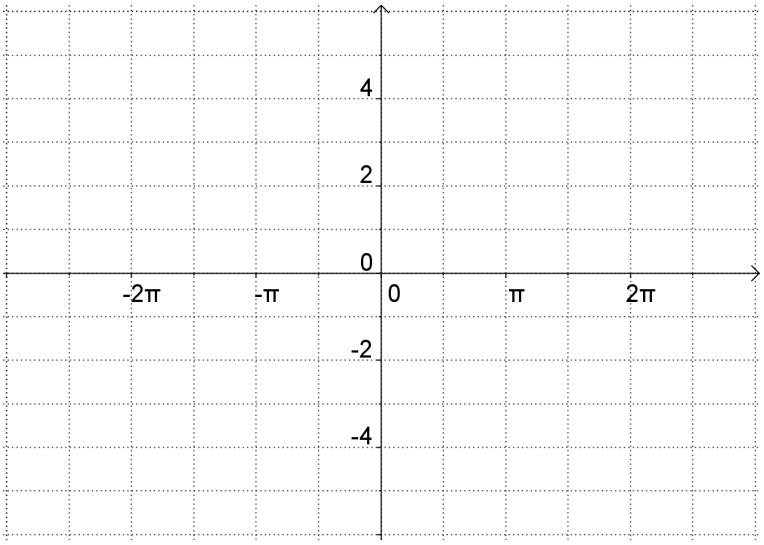


Domain: _____ Range: _____

Asymptotes: _____ Period: _____

Pre-Calculus 7.5 - 7.8 Test C

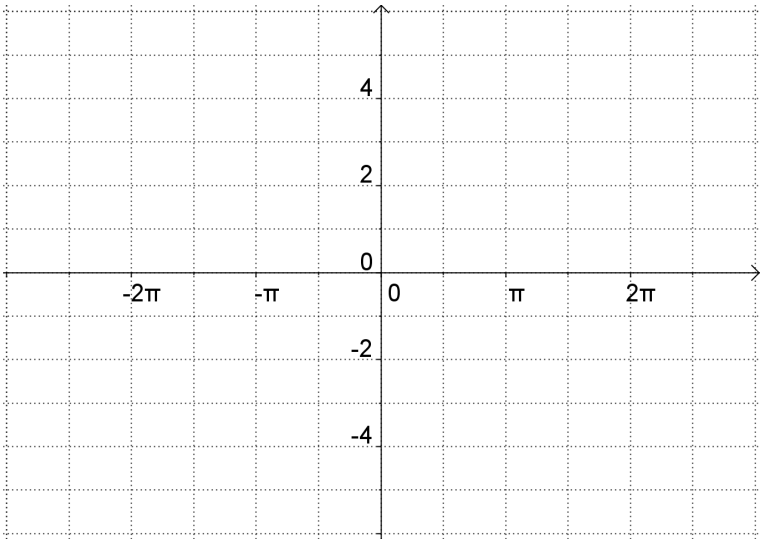
3. $f(x) = 3\sec(x - \pi)$



Domain: _____ Range: _____

Asymptotes: _____ Period: _____

4. $f(x) = -2\csc(2x)$



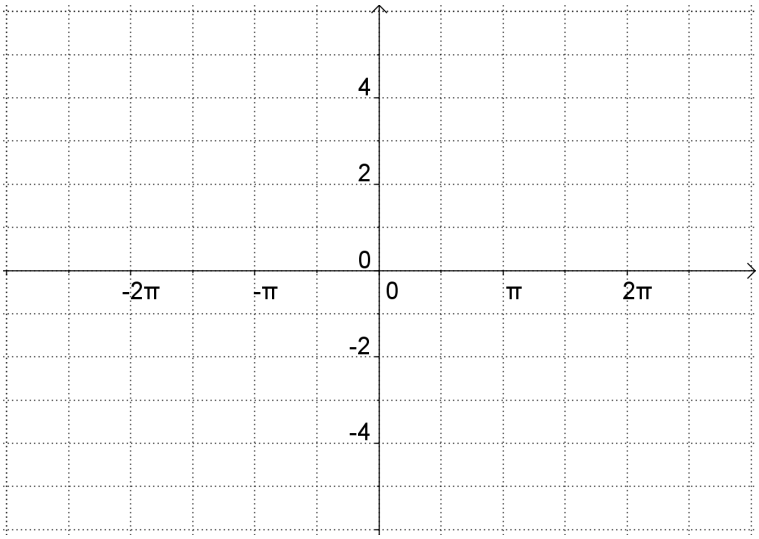
Domain: _____ Range: _____

Asymptotes: _____ Period: _____

Pre-Calculus 7.5 - 7.8 Test C

Write the transformations in order. **Sketch the graph** of the given trig function. State the **Domain, Range, Amplitude, and Period** of the function.

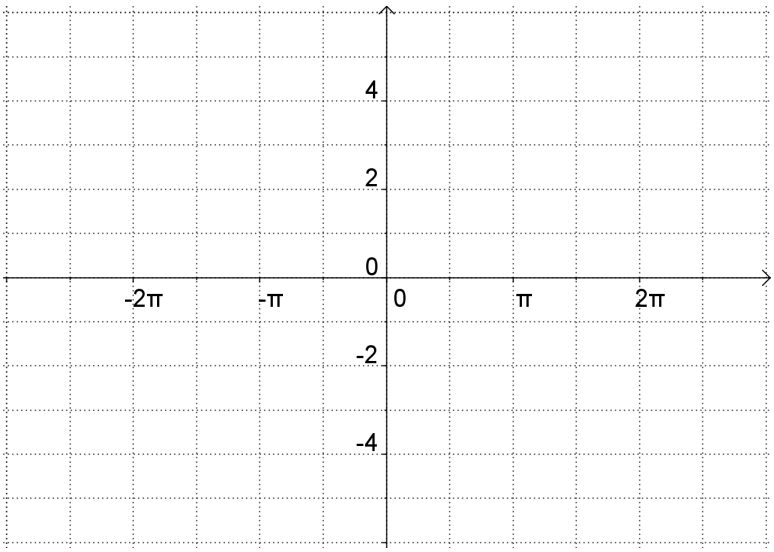
5. $f(x) = 3\sin(2x)$



Domain: _____ Range: _____

Amplitude: _____ Period: _____

6. $f(x) = -2\cos\left(x - \frac{\pi}{4}\right) + 1$



Domain: _____ Range: _____

Amplitude: _____ Period: _____

Pre-Calculus 7.5 - 7.8 Test C

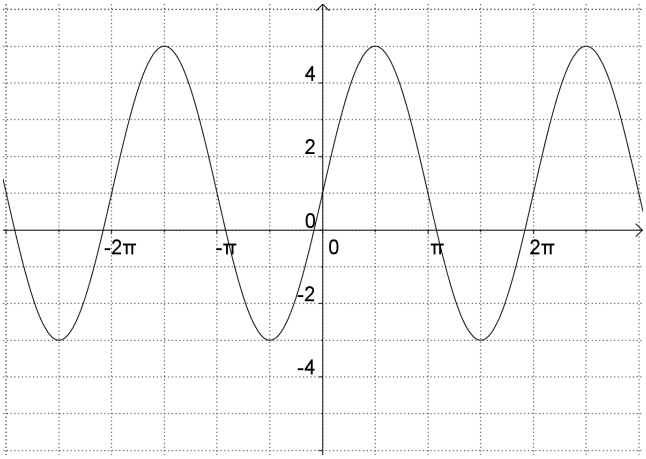
List the transformations IN ORDER for the functions in #7-8.

7. $f(x) = -\frac{1}{2}\sec\left((x-\pi)\right)+1$

8. $f(x) = 4\sin\left(\frac{1}{2}\left(x+\frac{\pi}{2}\right)\right)-2$

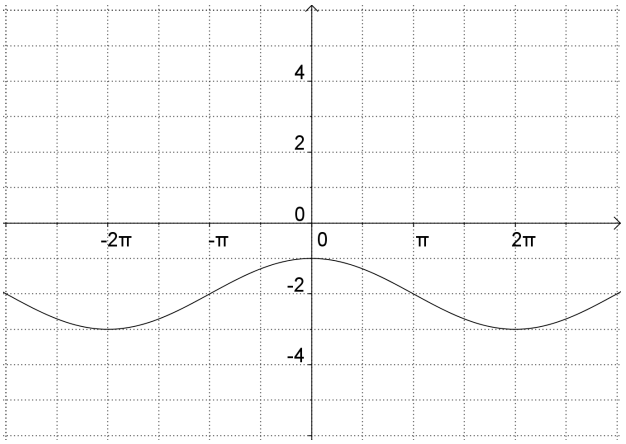
Determine an equation of the following graphs.

9.



$f(x) =$ _____

10.



$f(x) =$ _____

FUNCTION	AMPLITUDE	PERIOD	DOMAIN	RANGE
11. $y = 3\cos(2x)$				
12. $y = -2\sin\left(\frac{1}{3}x\right)+3$				
13. $y = -6\cos(3x)+1$				
14. $y = -2+\cos(x+\pi)$				
15. $y = \cot(x)+2$	Find Asymptotes			