**Use the following information:**
$cosθ=\frac{1}{3}$ where $\frac{3π}{2}\leq θ\leq 2π$.

1. Using the Pythagorean identity:
 $sin^{2}θ+cos^{2}θ=1$
Determine the value of $\cos(θ)$.

1. Using the Pythagorean identity:
 $sin^{2}θ+cos^{2}θ=1$
Determine the value of $\sin(θ)$.

1. What is a positive and negative co-terminal angle to $700°$
2. What is a reference angle to $700°$

1. How many radians are in 110°?
2. Which is greater 100° or $\frac{7}{2}$ radians?

Use the graph of the function
 $f\left(x\right)=2cos\left(x-\frac{π}{2}\right)+ 1 $below to answer questions 8 through 12

1. What is the midline of the graph?
2. What is the domain?

1. What is the range?

1. What is the amplitude?
2. What is the phase shift?
3. Describe the difference between the graphs of y=sinx and y=cosx.

**Use the following information:**
$sinθ=-\frac{1}{4}$ where $\frac{3π}{2}\leq θ\leq 2π$.

1. Using the Pythagorean identity:
 $sin^{2}θ+cos^{2}θ=1$
Determine the value of $\cos(θ)$.

1. Determine the value of $\cos(θand tanθ)$.

**Given** $y=3\sin(\left(x+π\right))-2$**.**

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**Graph it.**

1. What is the midline?
2. What is the amplitude?
3. What is the phase shift?
4. What is the domain?
5. What is the range?