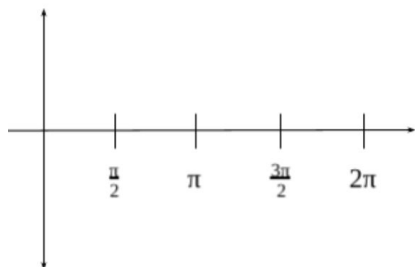
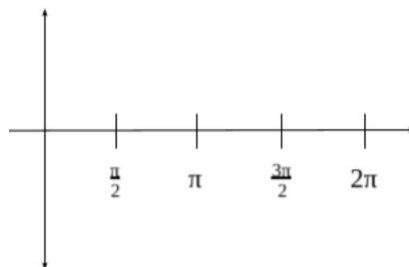


6.3 Graphs of the Sine and Cosine Functions
6.4 Translations of the Graphs of the Sine and Cosine Functions

$$y = A \sin(Bx - C) + D$$



$$y = A \cos(Bx - C) + D$$



Amplitude:

Period:

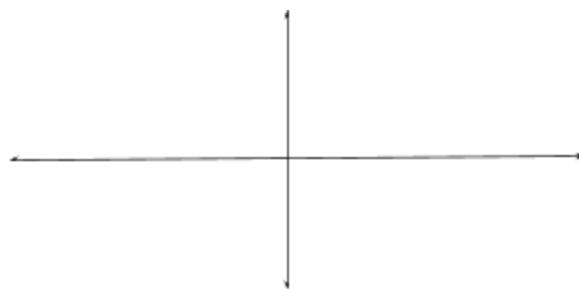
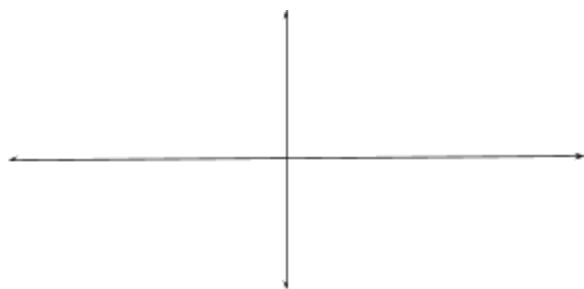
Phase Shift

Example: $y = \frac{1}{2} \cos(2x - 3)$

Graph the following

1. $y = 4 \cos 2x$

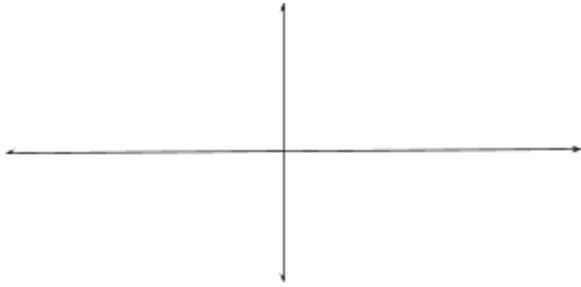
2. $y = -\sin \pi x$



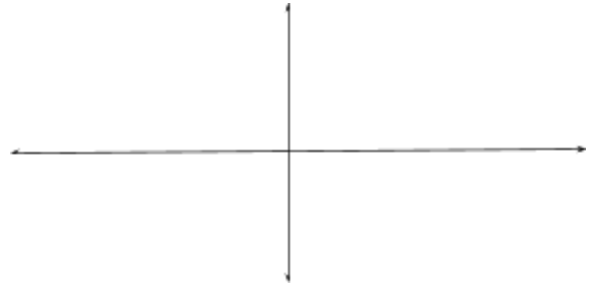
6.3 Graphs of the Sine and Cosine Functions

6.4 Translations of the Graphs of the Sine and Cosine Functions

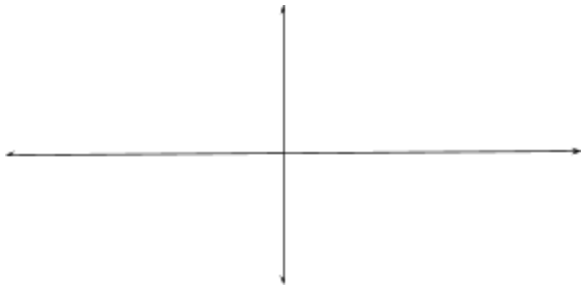
3. $y = -\frac{1}{2} \cos \frac{1}{2}x$



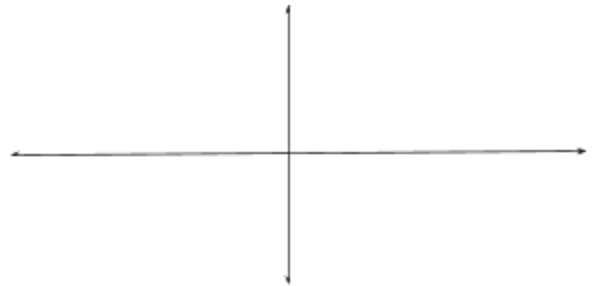
6. $y = 3 \sin(4x + \pi)$



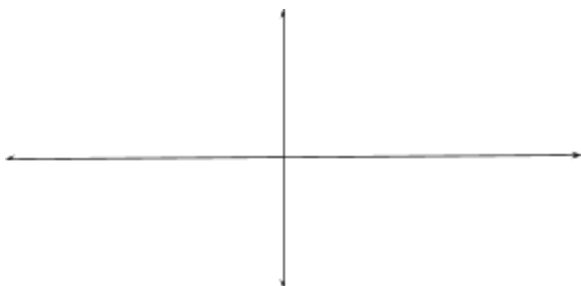
4. $y = 2 \sin(x + \pi)$



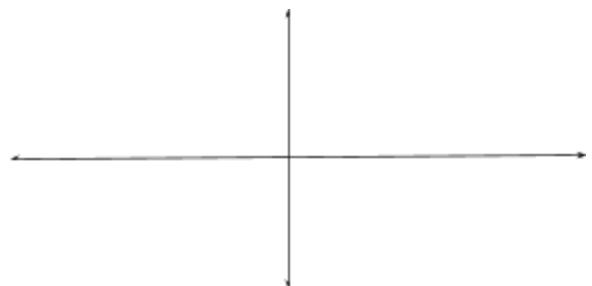
7. $y = 1 + 2 \cos 5x$



5. $y = \frac{1}{2} \cos(2x - \frac{\pi}{2})$



8. $y = 3 \sin \frac{1}{2}x - 3$



6.3 Graphs of the Sine and Cosine Functions

6.4 Translations of the Graphs of the Sine and Cosine Functions