What does the two do? Name

Shifting Sinusoidal Curves Block

* Set your calculator to RADIAN mode
* Set your WINDOW to:

 x-min : $-\frac{π}{2}$ x-max: $ 2π$ x scl: $\frac{π}{2}$

 y-min: -4 y-max: 4 y scl: 1

Graph y = sin x. Compare your parent graph to the graph of each of the following.

1) Graph y = 2 sin x and y = ½ sin x . How do the numbers in front of sine change the graph?

2) Graph y = sin x + 2 and y = sin x -2. How do the numbers after sine change the graph?

3) Graph y = sin 2x and y = sin $ \frac{1}{2}x$. How do the numbers in front of x change the graph?

4) Graph $y=\sin((x-)\frac{π}{2})$ and $y=\sin((x+)\frac{π}{2})$. How do the numbers after x change the graph?