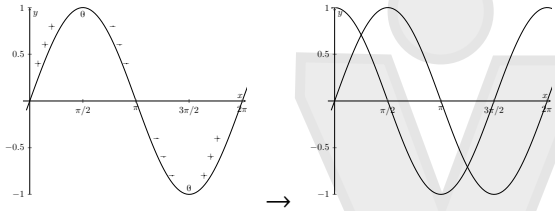
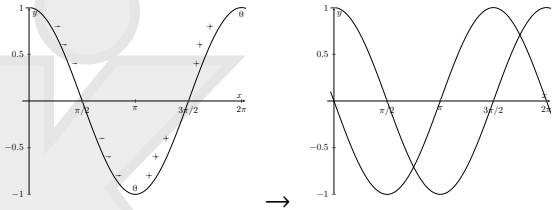
DERIVATIVE GRAPHS OF TRIGONOMETRIC FUNCTIONS: When drawing derivative graphs, take note of:

- When the graph is increasing (derivative graph is positive)
- When the graph is decreasing (derivative graph is negative)
- A turning point or horizontal point has a derivative graph value of zero (x-intercept on the derivative graph)

By sketching the gradient/derivative function of $\sin x$, we get the graph of $\cos x$.



Similarly, by sketching the gradient function of $\cos x$, we get the graph of $-\sin(x)$



1.2 WORKED EXAMPLE

Draw the derivative graph of the sine function on top of the graph provided. What type of graph is the resultant graph?