DIFFERENCE QUOTIENT AS THE SLOPE OF A SECANT/CHORD:

A secant line connects two points on a polynomial. By using the difference quotient, we can determine the slope of the secant between two points; (x, f(x))and ((x + h), f(x + h)).

- 1. Find the difference quotient of the function.
- Sub in the values for "x" and "h", then evaluate.



7.3 WORKED EXAMPLE

Consider the properties of an odd function. Which other two points will have the same secant slope?

7.4 WORKED EXAMPLE

How does an even function behave differently? How will the slope of the secant between x and (x + h) relate to the slope of a secant between -x and -(x + h)?