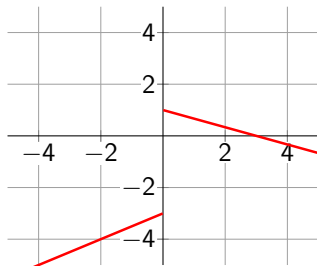


# Bellwork 8/22 (5 Minutes)

## [Piecewise-Defined Functions]



Find a piecewise formula of this graph.

reset

# Exercise

For each function, evaluate:

$$\frac{f(a+h) - f(a)}{h}$$

①  $f(x) = x^2 + 3x$

②  $f(x) = x + 2$

③  $f(x) = 2x$

reset

# Exercise

Rewrite each function as a piecewise-defined one:

①  $f(x) = -|x + 2| - 3$

②  $g(x) = |1 - x|$

③  $h(x) = 1 - |x|$

reset

# Exercise

Determine whether each function is even, odd, or neither.  
Explain your reasoning.

①  $f(x) = x^4 + x^2$

②  $g(x) = -x^2 + x$

③  $h(x) = 2x^3 + x$

reset