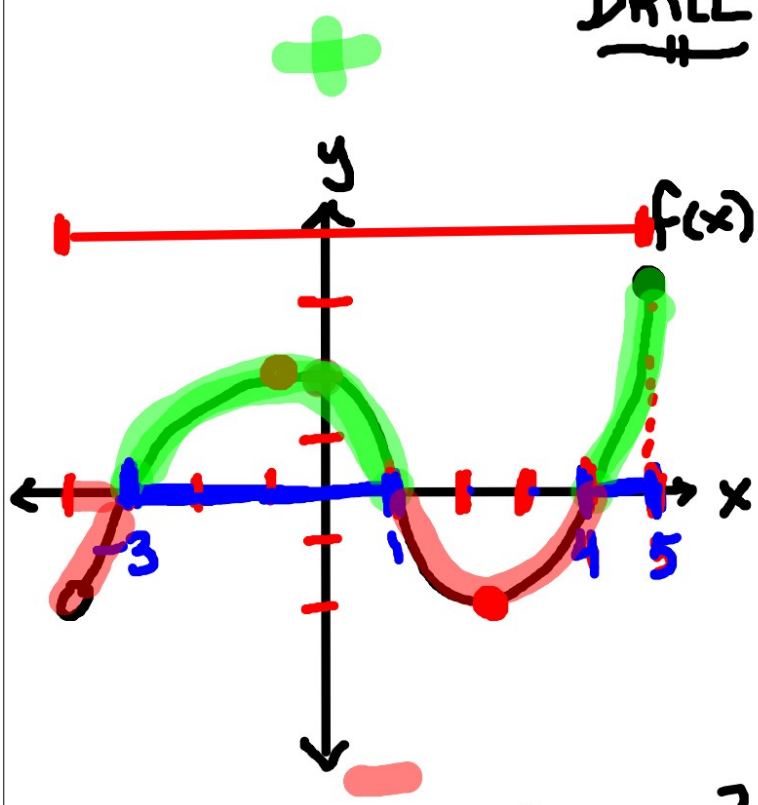
DRILL



(-3,0) (1,0) (4,0)

① What are the x-intercepts?

x = -3 x = 4

x = 1

{-3, 1, 4}

② What is the y-intercept?

y = 2 or (0,2)

③ Which intervals is the graph positive?

(-3, 1) (4, 5)

④ What is the Domain?

(-4, 5]

(2/9) Function Notation / Evaluating Functions

(Read) $f(x) \Rightarrow$ "f" of "x"

$f(x) \Rightarrow y$ (the value of y at a specific "x")

$f(2) \Rightarrow$ What is the value of "y" (the function) when $x = 2$.

Ex: $f(x) = 2x^2 + 3x - 1$

* Evaluate $f(5) = 2(5)^2 + 3(5) - 1$

$= 2(25) + 15 - 1 = 50 + 15 - 1$

$f(5) = 64$

Ex: $g(x) = -8x + 5$

* $h(x) = \dfrac{3x+4}{2}$

Evaluate: * $g(-1) = 13$

→ * $h(6) = 11$

* $g(8) - h(-12) = -43$

$f(x) = \dfrac{-4x-1}{3}$ $\qquad$ $g(x) = -3x^2 + 8$

Ex: ① $f(-7) =$

② $g(-3) =$

③ $g(5) + f(-1) =$