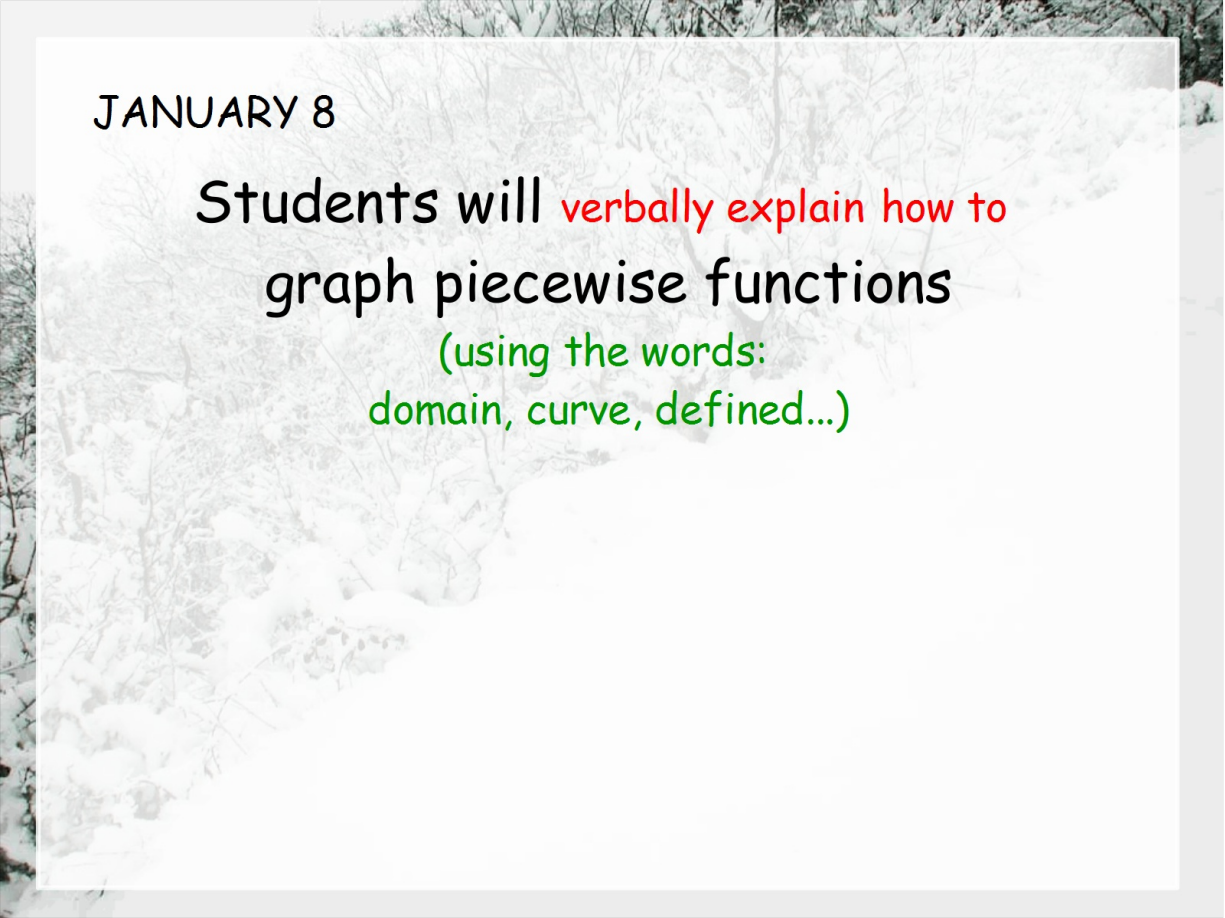


JANUARY 8

How is a piecewise function
different from a "regular" function?



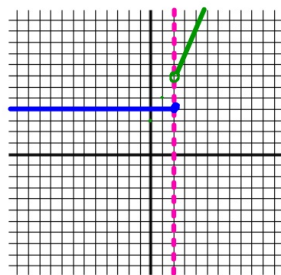
JANUARY 8

Students will verbally explain how to
graph piecewise functions

(using the words:
domain, curve, defined...)

Graph:

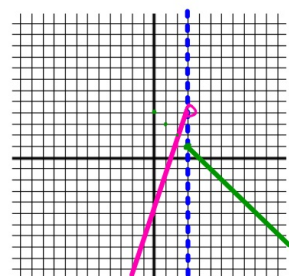
$$f(x) = \begin{cases} 4 & \text{if } x \leq 2 \\ 2x + 3 & \text{if } x > 2 \end{cases}$$



$y=4$
(straight line
at 4)

$y=2x+3$
 $y\text{-int}=3$
(starts at $x=0, y=3$)
slope=2

$$f(x) = \begin{cases} 3x - 5 & \text{if } x < 3 \\ -x + 4 & \text{if } x \geq 3 \end{cases}$$



$$f(x) = \begin{cases} -2x^2 & \text{if } x \leq 0 \\ 2x^2 + 1 & \text{if } 0 < x < 2 \\ 3x & \text{if } x \geq 2 \end{cases}$$

