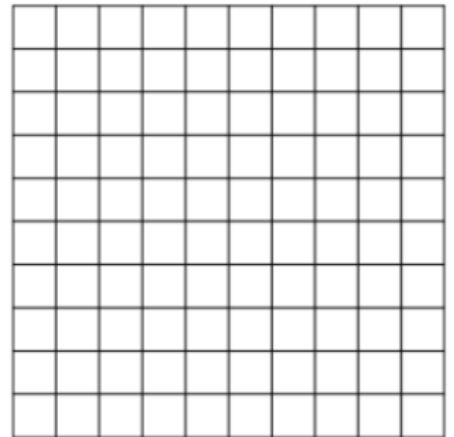


Math 3 Guided Notes Unit 1 Day 6 – Piecewise Functions

Piecewise Function is a function that

Example 1:

Graph $f(x) = \begin{cases} 3 & \text{if } x \leq -1 \\ 4 - x & \text{if } -1 < x \leq 4 \\ 3x - 10 & \text{if } x > 4 \end{cases}$



Evaluate each

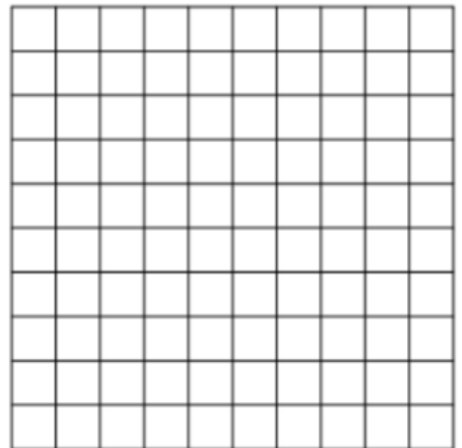
$f(-3)$

$f(4)$

$f(7)$

Example 2:

Graph: $f(x) = \begin{cases} -1 & \text{if } x < -3 \\ -(x+2)^2 + 4 & \text{if } -3 \leq x < 0 \\ \frac{1}{2}x + 3 & \text{if } 0 \leq x < 4 \end{cases}$



Evaluate each

$f(-7)$

$f(2)$

$f(0)$

Ex 3:

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

