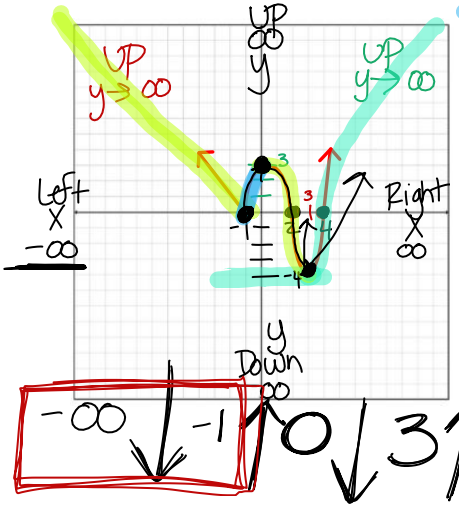
3.1 Characteristics of Functions **Name:** _____



Increasing Interval(s): (-1,0) (3,∞)

Decreasing Interval(s): (-∞,-1) (0,3)

Constant Interval(s): none

Absolute Minimum: (3,-4)

Absolute Maximum: none

Relative Minimum: (-1,0)

Relative Maximum: (0,3)

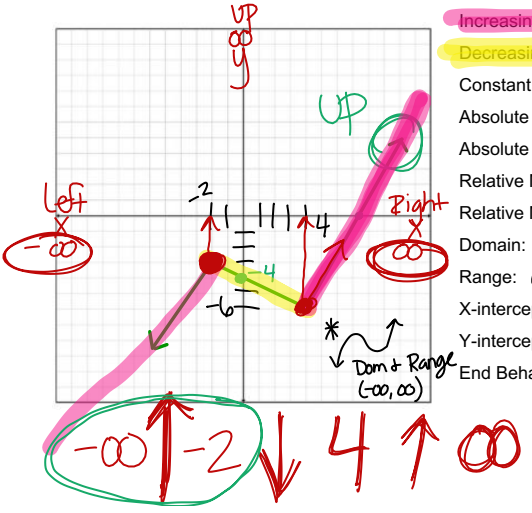
Domain: (-∞,∞)

Range: [-4,∞) (b- hi)

X-intercept: (-1,0) (2,0) (4,0)

Y-intercept: (0,3) L

End Behavior: L: x → -∞, y → ∞ ; R: x → ∞, y → ∞



Increasing Interval(s): (-∞,-2) (4,∞)

Decreasing Interval(s): (-2,4)

Constant Interval(s): none

Absolute Minimum: none

Absolute Maximum: none

Relative Minimum: (4,-6)

Relative Maximum: (-2,-3)

Domain: (-∞,∞)

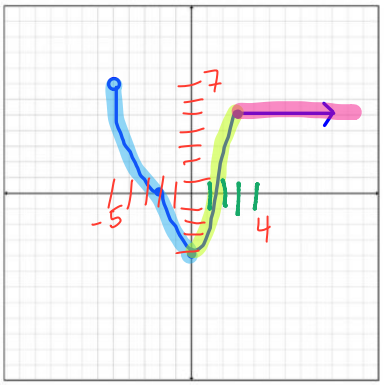
Range: (-∞,∞)

X-intercept: (7.5, 0)

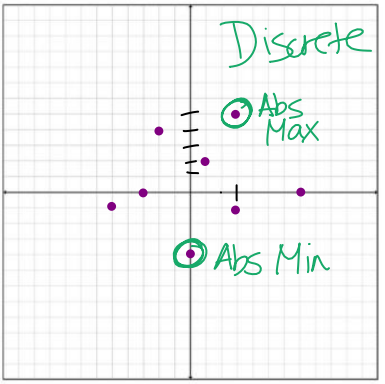
Y-intercept: (0,-4) L

End Behavior: L: x → -∞, y → -∞ ; R: x → ∞, y → ∞

3.1 Characteristics of Functions **Name:** _____



Increasing Interval(s): (0, 3)
Decreasing Interval(s): (-5, 0)
Constant Interval(s): (3, ∞)
Absolute Minimum: (0, -4)
Absolute Maximum: (-5, 7)
Relative Minimum: none
Relative Maximum: none
Domain: (-5, ∞)
Range: [-4, 7)
X-intercept: (-2, 0) (1.5, 0)
Y-intercept: (0, -4)
End Behavior: x → -∞ x → ∞
y → none y → 5



Increasing Interval(s): none
Decreasing Interval(s): none
Constant Interval(s): none
Absolute Minimum: (0, -4)
Absolute Maximum: (3, 5)
Relative Minimum: none
Relative Maximum: none
Domain: {-5, -3, -2, 0, 1, 3, 7}
Range: {-4, -1, 0, 2, 4, 5}
X-intercept: (-3, 0) (7, 0)
Y-intercept: (0, -4)
End Behavior: x → -∞ x → ∞
y → none y → none