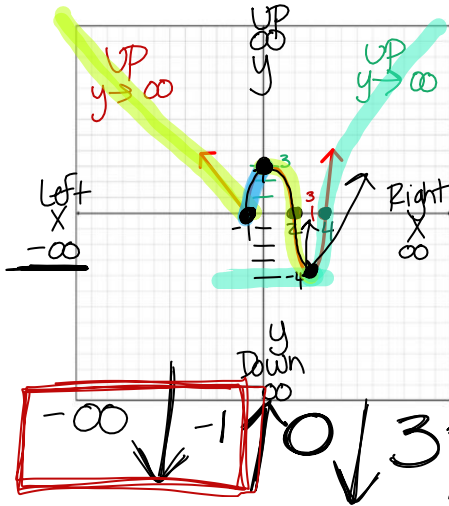


3.1 Characteristics of Functions

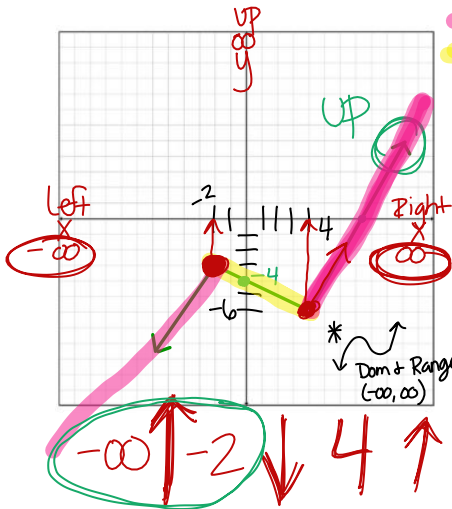
Name: _____



- Increasing Interval(s): $(-1, 0)$ $(3, \infty)$
- Decreasing Interval(s): $(-\infty, -1)$ $(0, 3)$
- Constant Interval(s): none
- Absolute Minimum: $(3, -4)$
- Absolute Maximum: none
- Relative Minimum: $(-1, 0)$
- Relative Maximum: $(0, 3)$
- Domain: $(-\infty, \infty)$
- Range: $[-4, \infty)$
- X-intercept: $(-1, 0)$ $(2, 0)$ $(4, 0)$
- Y-intercept: $(0, 3)$ L
- End Behavior:

$x \rightarrow -\infty$	$y \rightarrow \infty$
$x \rightarrow \infty$	$y \rightarrow \infty$

$x \rightarrow -\infty$	$y \rightarrow \infty$
$x \rightarrow \infty$	$y \rightarrow \infty$



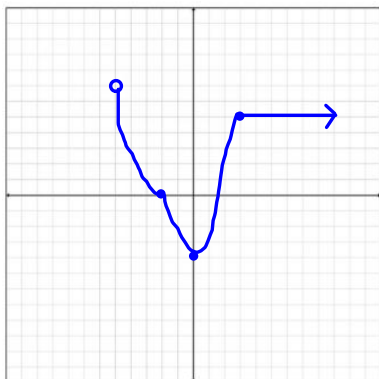
- Increasing Interval(s): $(-\infty, -2)$ $(4, \infty)$
- Decreasing Interval(s): $(-2, 4)$
- Constant Interval(s): none
- Absolute Minimum: none
- Absolute Maximum: none
- Relative Minimum: $(4, -6)$
- Relative Maximum: $(-2, 3)$
- Domain: $(-\infty, \infty)$
- Range: $(-\infty, \infty)$
- X-intercept: $(7.5, 0)$
- Y-intercept: $(0, -4)$
- End Behavior:

$x \rightarrow -\infty$	$y \rightarrow -\infty$
$x \rightarrow \infty$	$y \rightarrow -\infty$

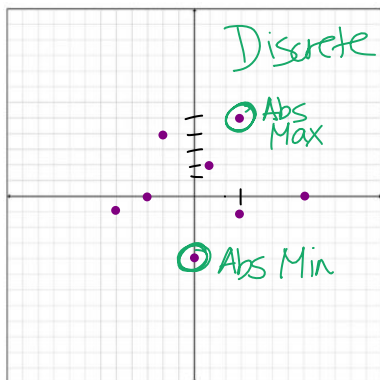
$x \rightarrow -\infty$	$y \rightarrow \infty$
$x \rightarrow \infty$	$y \rightarrow \infty$

3.1 Characteristics of Functions

Name: _____



- Increasing Interval(s):
- Decreasing Interval(s):
- Constant Interval(s):
- Absolute Minimum:
- Absolute Maximum:
- Relative Minimum:
- Relative Maximum:
- Domain:
- Range:
- X-intercept:
- Y-intercept:
- End Behavior: $x \rightarrow -\infty$ $x \rightarrow \infty$
 $y \rightarrow$ $y \rightarrow$



- Increasing Interval(s): *none*
- Decreasing Interval(s): *none*
- Constant Interval(s): *none*
- Absolute Minimum: *(0, -4)*
- Absolute Maximum: *(1, 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: $x \rightarrow -\infty$ $x \rightarrow \infty$
 $y \rightarrow$ *none* $y \rightarrow$ *none*