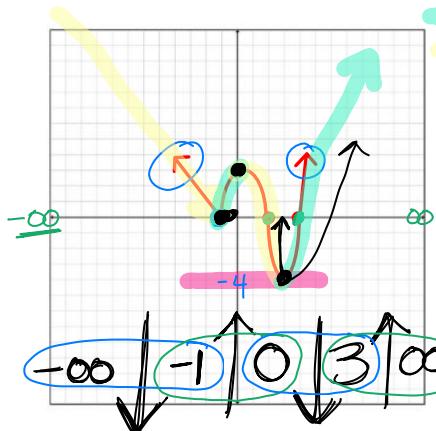
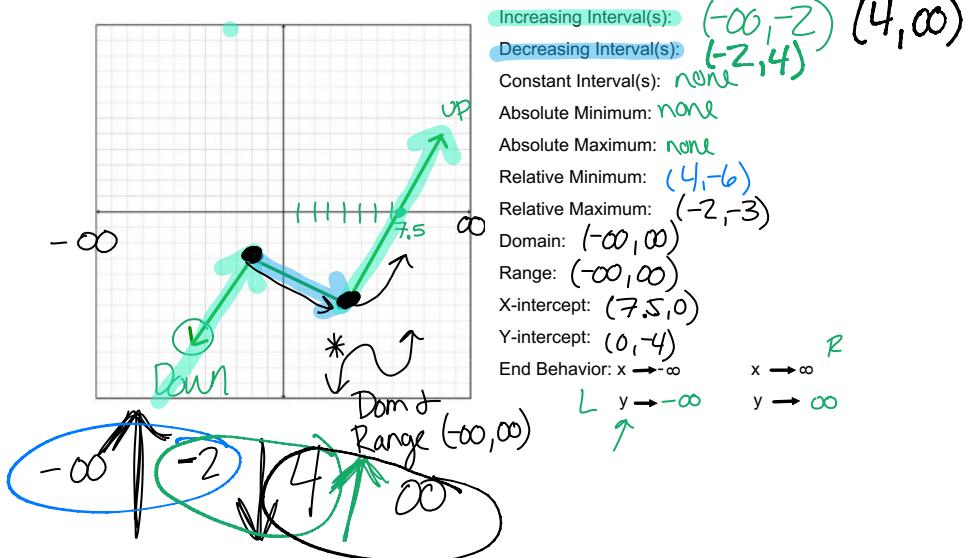


3.1 Characteristics of Functions



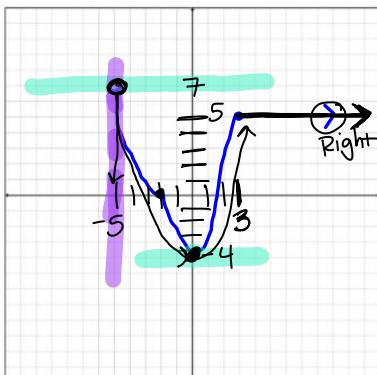
Name: _____

- Increasing Interval(s): $(-1, 0) (3, \infty)$
- Decreasing Interval(s): $(-\infty, -1) (0, 3)$
- Constant Interval(s): **none**
- Absolute Minimum: **none**
- 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: $(0, 3)$
- End Behavior: $x \rightarrow -\infty$ $y \rightarrow \infty$ $x \rightarrow \infty$ $y \rightarrow \infty$



3.1 Characteristics of Functions

Name: _____



Increasing Interval(s): $(0, 3)$

Decreasing Interval(s): $(-5, 0)$

Constant Interval(s): $(3, \infty)$

Absolute Minimum: $(0, -4)$

Absolute Maximum: $(-5, 7)$

Relative Minimum: none

Relative Maximum: none

Domain: $(-5, \infty)$

Range: $[-4, 7)$

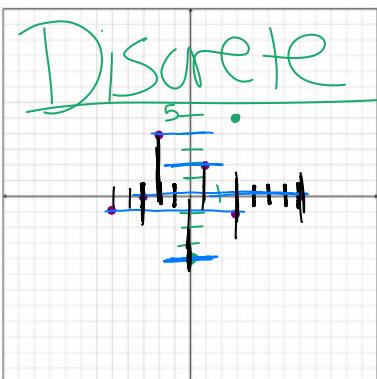
X-intercept: $(-2, 0), (1.5, 0)$

Y-intercept: $(0, -4)$

End Behavior: $x \rightarrow -\infty$

$x \rightarrow \infty$

$y \rightarrow$ none $y \rightarrow 5$



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: $\{-4, -1, 0, 2, 4, 5, 7\}$

X-intercept: $(-3, 0), (7, 0)$

Y-intercept: $(0, -4)$

End Behavior: $x \rightarrow -\infty$

$x \rightarrow \infty$

$y \rightarrow$ none $y \rightarrow$ none