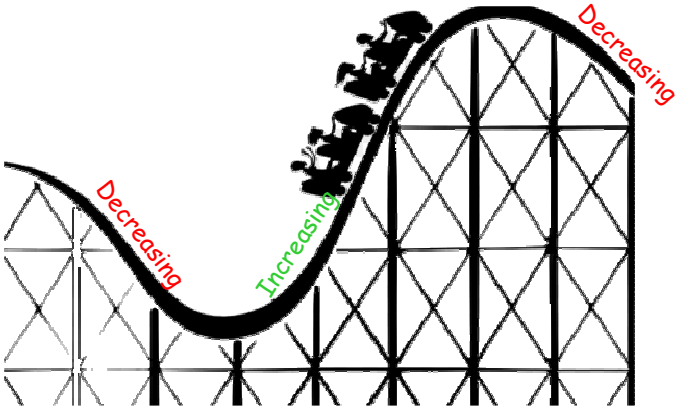
1.5 Intervals of Increase and Decrease



~~Interval of Increase:~~

the interval(s) within a functions domain (x-values), where the ~~y-values get larger moving left to right~~

~~Interval of Decrease:~~

the interval(s) within a functions domain (x-values), where the ~~y-values get smaller~~ moving left to right

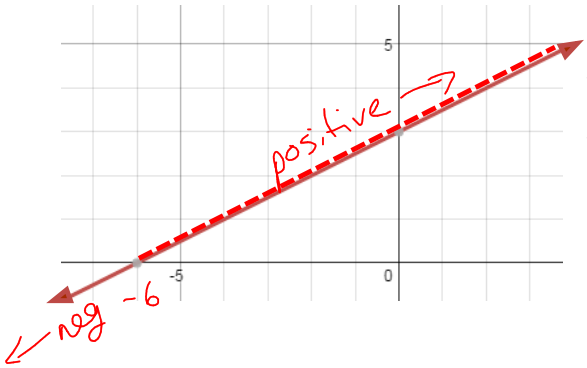
Positive Intervals

the interval(s) within a functions domain (x-values), where the y-values are positive

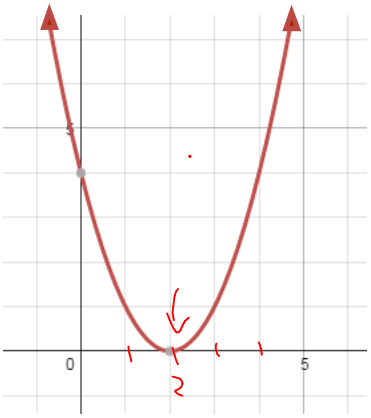
Negative Intervals

the interval(s) within a functions domain (x-values), where the y-values are negative

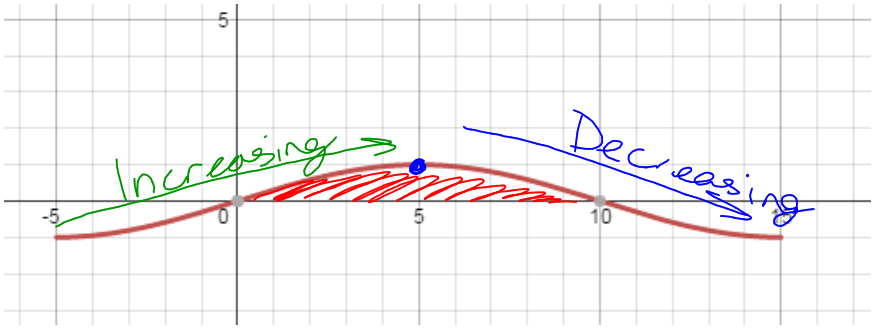
State the intervals of increase and decrease and all positive and negative intervals for each of the following functions:



Interval of increase: $-\infty < x < \infty$
Interval of decrease: none
Positive interval: $x > -6$
Negative interval: $x < -6$



Interval of increase: $x > 2$
Interval of decrease: $x < 2$
Positive interval: $-\infty < x < \infty$, $x \neq 2$
Negative interval: none



Interval of increase: $-5 < x < 5$
Interval of decrease: $5 < x < 15$
Positive interval: $0 < x < 10$
Negative interval: $-5 < x < 0$ OR $10 < x < 15$

HMWK:

1.5 Handouts

finish Mid chapter Review