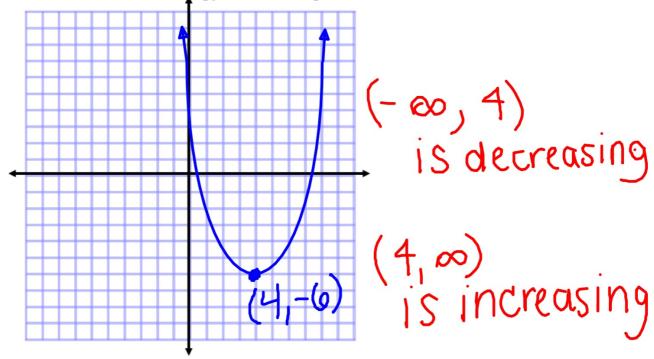
Section 2.2.1 Increasing and Decreasing Intervals

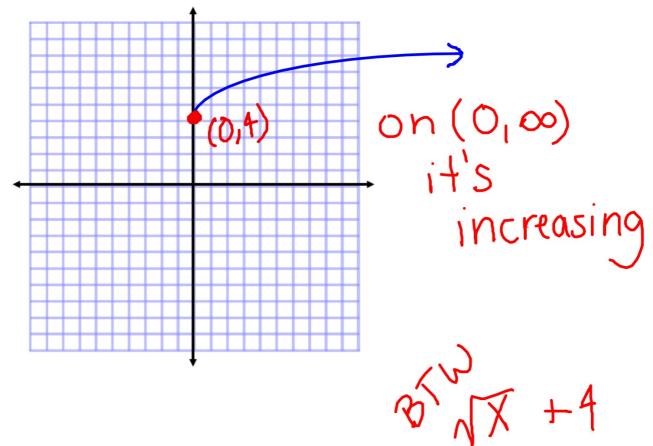
Intervals on which the slope is positive (line is rising, left to right) are considered increasing.

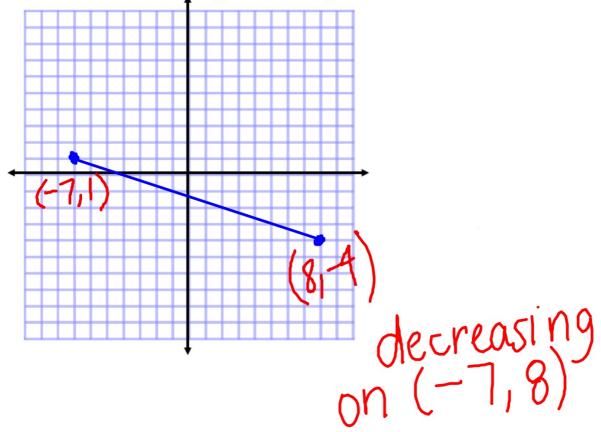
Intervals on which the slope is negative (line is falling, left to right) are considering decreasing.

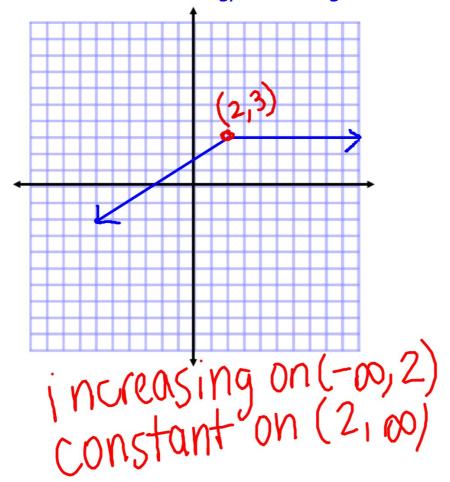
Intervals on which the line is flat, slope is zero, are considered constant.

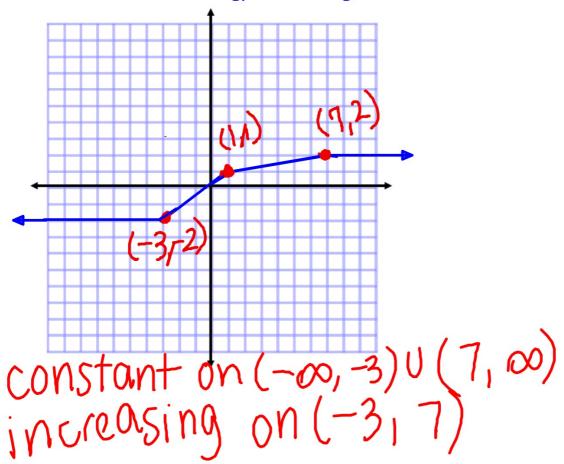
All intervals are expressed with respect to x...the x-values in which this is occuring.

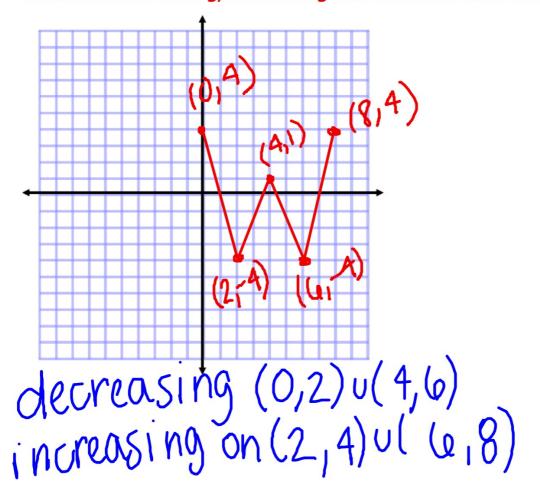












Suggested Practice Sec 2.2 page 238 1-12

- inc on (-1,∞)
 dec on (-∞,-1)
- 2. inc on $(-\infty,-1)$ dec on $(-1,\infty)$
- 3. inc on $(0,\infty)$
- 4. inc on (-1,∞)
- 5. dec on (-2,6)
- 6. inc on (-3,2)

- 7. inc $(-\infty,-1)$ constant $(-1,\infty)$
- 8. constant on $(-\infty,0)$ inc on $(0,\infty)$
- 9. inc on $(-\infty,0)u(1.5,3)$ dec on $(0,1.5)u(3,\infty)$
- $(-\infty,-2)u(4,\infty)$ increasing on (-2,4)

11. constant on

- 12. constant on $(-\infty,-4)u(2,\infty)$ decreasing on (-4,2)
- 10. inc on (-5,-4)u(-2,0)u(2,4) dec on (-4,-2)u(0,2)u(4,5)