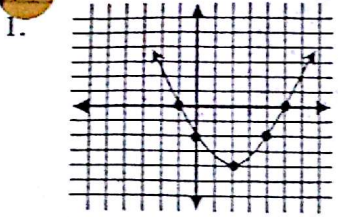
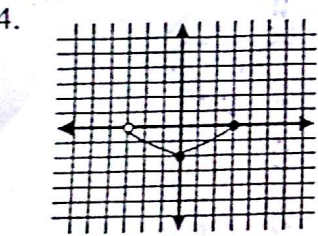


Increasing/Decreasing/Constant, etc

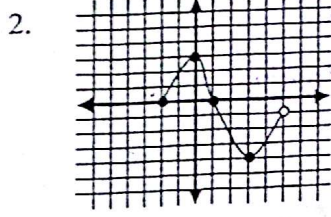
For the following functions state the following: a) domain b) range, c) intervals of increasing, decreasing, constant, d) any maximums or minimums, e) any X- and Y- intercepts



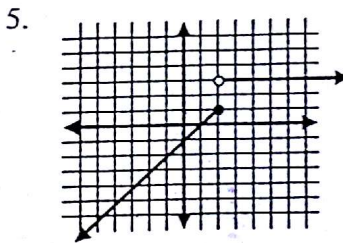
- a. D = $(-\infty, \infty)$
- b. R = $[-4, \infty)$
- c. Increasing: $(2, \infty)$
Decreasing: $(-\infty, 2)$
- Constant: none
- d. Maximum (none)
Minimum (2, -4)
- e. X- int (-1, 0), (5, 0)
Y- int (0, -2)



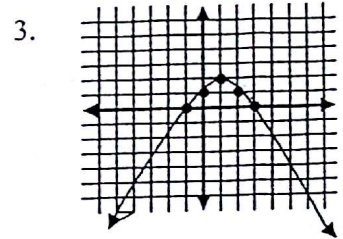
- a. D = $(-3, 3]$
- b. R = $[-2, 0]$
- c. Increasing: $[0, 3]$
Decreasing: $(-3, 0]$
- Constant: none
- d. Maximum (3, 0)
Minimum (0, -2)
- e. X- int (3, 0)
Y- int (0, -2)



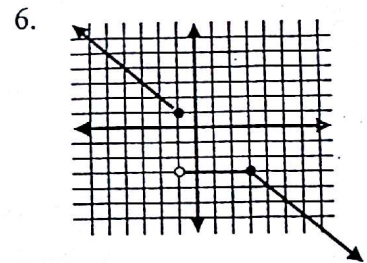
- a. D = $[-2, 5)$
- b. R = $[-4, 3]$
- c. Increasing: $(-2, 0) \cup (3, 5)$
Decreasing: $(0, 3)$
- Constant: none
- d. Maximum (0, 3)
Minimum (3, -4)
- e. X- int (-2, 0), (1, 0)
Y- int (0, 3)



- a. D = $(-\infty, \infty)$
- b. R = $(-\infty, 3]$
- c. Increasing: $(-\infty, 2)$
Decreasing: none
- Constant: $(2, \infty)$
- d. Maximum (none)
Minimum (none)
- e. X- int (1, 0)
Y- int (0, -1)



- a. D = $(-\infty, \infty)$
- b. R = $(-\infty, 2]$
- c. Increasing: $(-\infty, 1)$
Decreasing: $(1, \infty)$
- Constant: none
- d. Maximum (1, 2)
Minimum (none)
- e. X- int (-1, 0), (3, 0)
Y- int (0, 1)



- a. D = $(-\infty, \infty)$
- b. R = $(-\infty, -3] \cup [1, \infty)$
- c. Increasing: none
Decreasing: $(-\infty, -1) \cup (3, \infty)$
- Constant: $(-1, 3)$
- d. Maximum (none)
Minimum (none)
- e. X- int none
Y- int (0, -3)