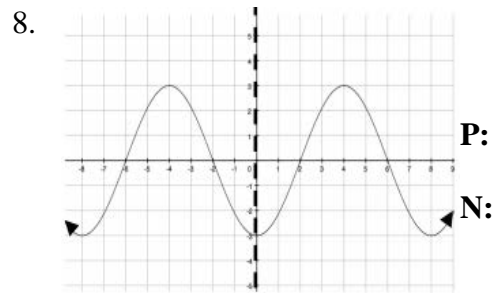
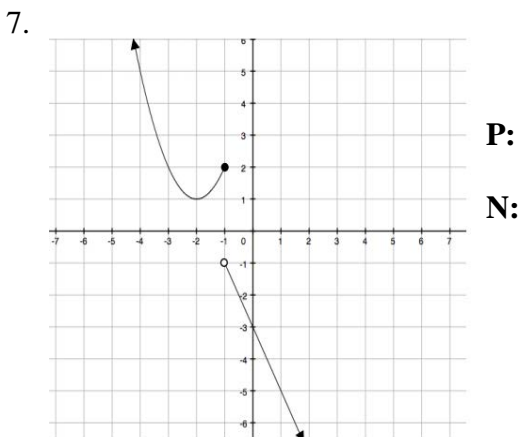
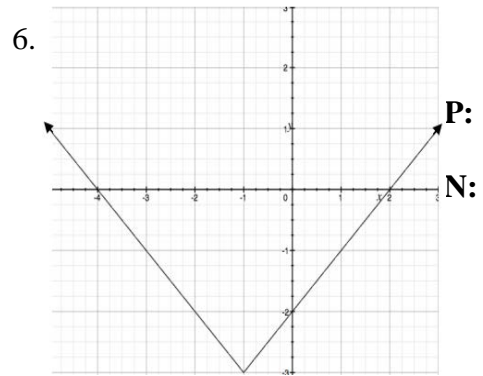
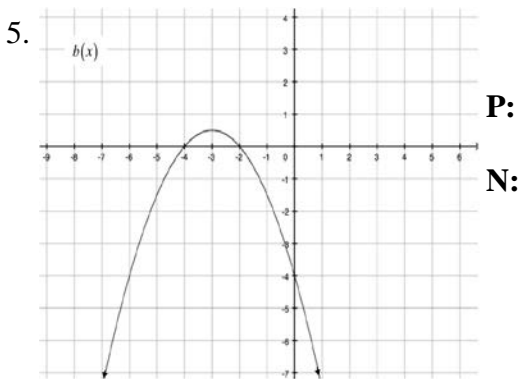
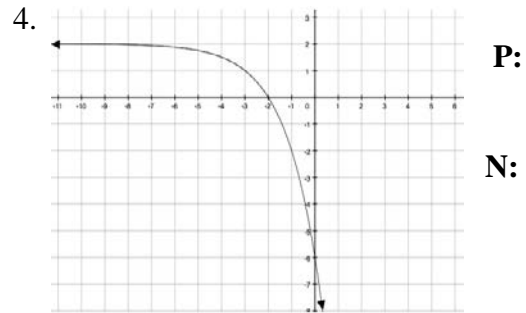
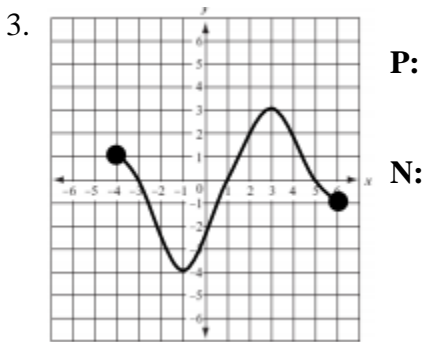
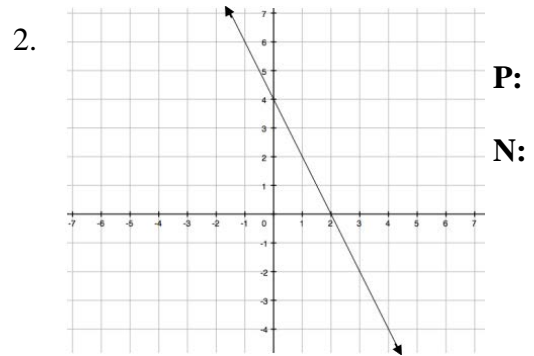
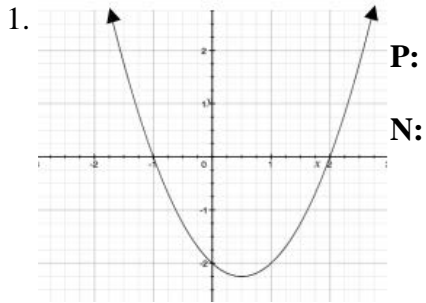


## Secondary Math 2

### 3.4 Positive and Negative

Name: \_\_\_\_\_ Period \_\_\_\_\_

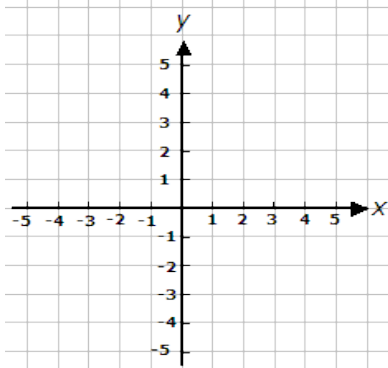


Do the following.

A. Graph

B. Find Positive and Negative intervals.

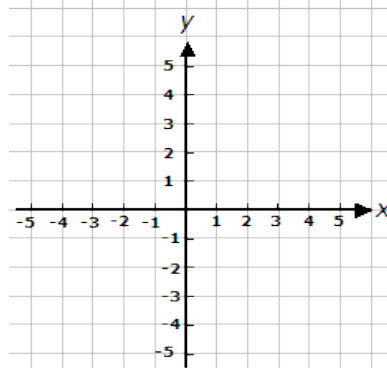
9.  $f(x) = x^2 + 2x - 3$



P:

N:

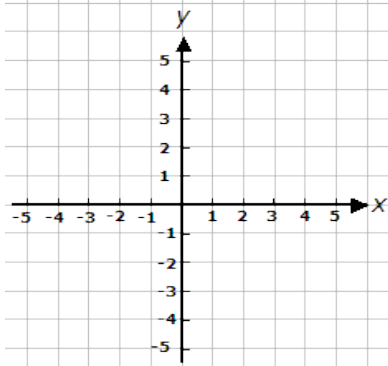
10.  $f(x) = \sqrt[3]{x+2} - 1$



P:

N:

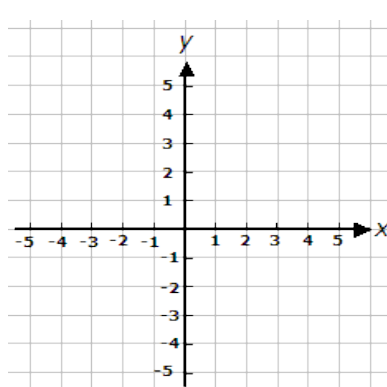
11.  $f(x) = |x+1| - 3$



P:

N:

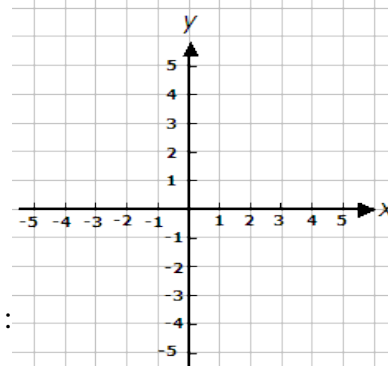
12.  $f(x) = -(x+2)^2 + 3$



P:

N:

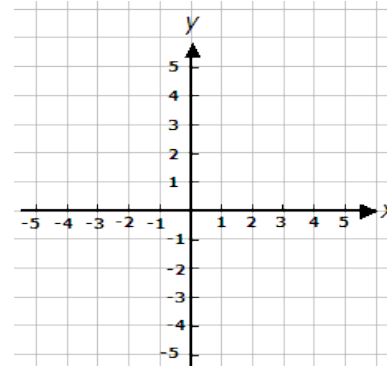
13.  $f(x) = \frac{1}{2}x + 3$



P:

N:

14.  $f(x) = 2\sqrt{x-3} - 1$



P:

N:

15. Find the domain and range of  $f(x) = \sqrt{x} + 4$ .

**Find the x and y intercepts for each function.**

16.  $f(x) = x^2 - 4x + 3$

x:

y:

17.  $f(x) = \frac{1}{2}x - 7$

x:

y:

**Find the maximum or minimum.**

18.  $f(x) = -(x - 4)^2 + 4$

19.  $f(x) = |x - 2| + 8$

**Determine if the following is a linear, quadratic or exponential function.**

20.

21.

22.

x	f(x)
-1	7
0	14
1	21
2	28

x	f(x)
0	1
1	3
2	9
3	27

x	f(x)
4	17
5	26
6	37
7	50

**Describe the transformations.**

23.  $f(x) = (x + 4)^2 - 3$

24.  $f(x) = -\frac{1}{2}|x + 2| + 2$

**Factor.**

25.  $12x^2 + 138x + 336$

26.  $21x^2 + 162x - 243$