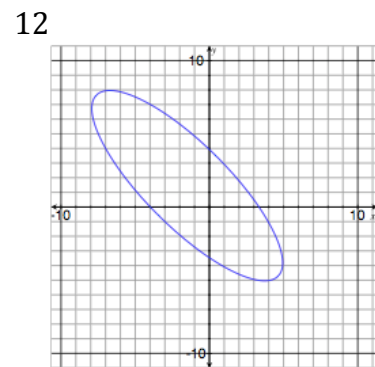
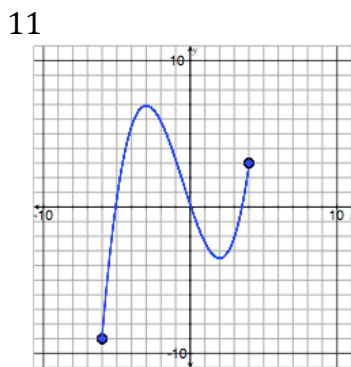
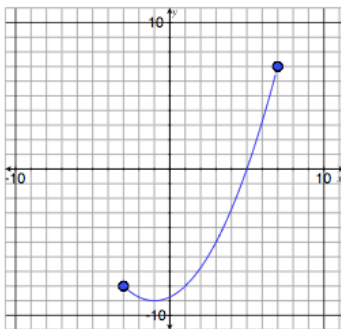
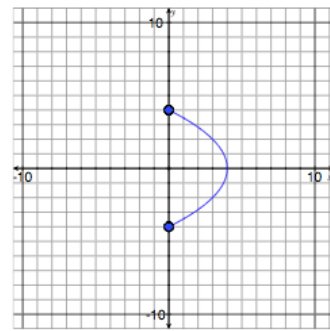
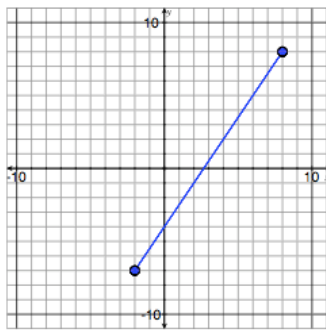
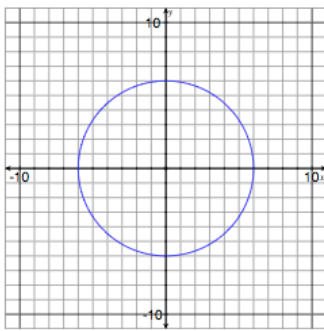
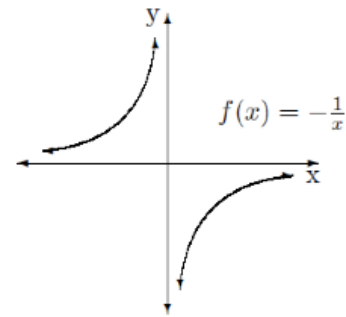
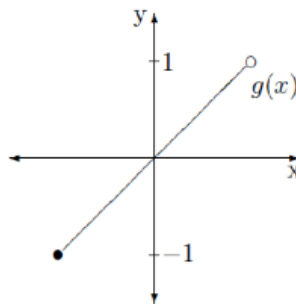
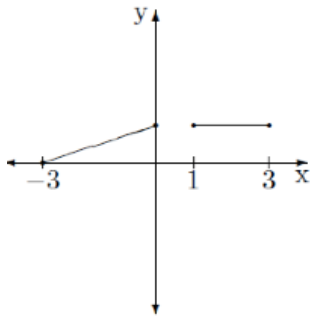
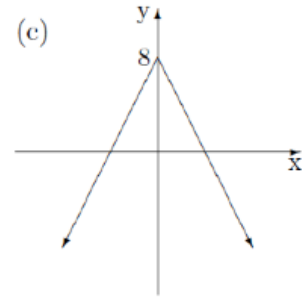
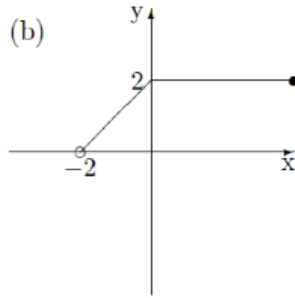
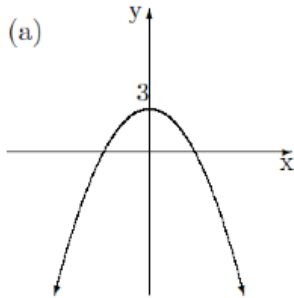


The following review for Unit 1 is split up into topics that can be used for stations

**DOMAIN & RANGE**

Find the domain and range of the following functions from the graph. Use correct set notation.



## EVALUATING FUNCTIONS

1.  $f(x) = x^2 - 3x$ ; Find  $f(-8)$

2.  $p(t) = 4t - 5$ ; Find  $p(t - 2)$

3.  $w(n) = 4n + 2$ ; Find  $w(3n)$

4.  $g(n) = n^3 - 5n^2$ ; Find  $g(-4n)$

5.  $f(n) = n^2 - 2n$ ; Find  $f(n^2)$

6. Let  $g(x) = -4x^2 - 3x - 7$ . Find the following:

a)  $g(4)$

b)  $g(0)$

c)  $g(x+1)$

7. Let  $f(x) = 3x^2 - 1$ . Find each of the following:

a)  $f(2)$

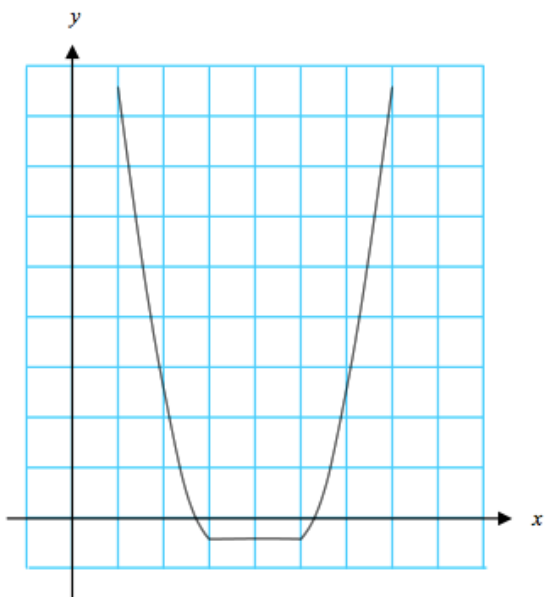
b)  $f(0)$

c)  $f(x+3)$

## INCREASING/DECREASING INTERVALS

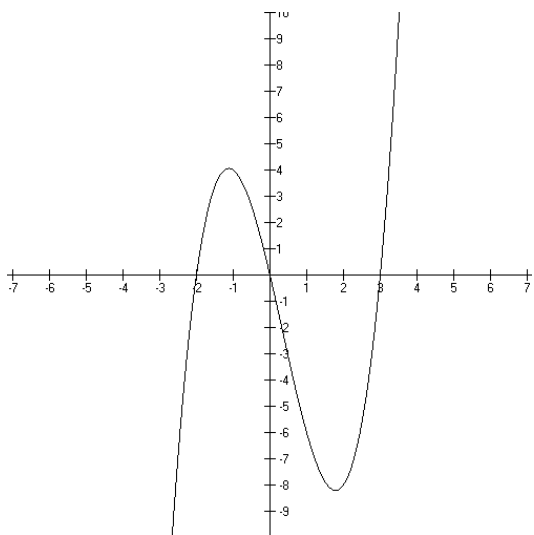
1. Find the intervals of increasing/decreasing/constants  
(Each square is one unit)

What interval is the function decreasing? increasing? constant?

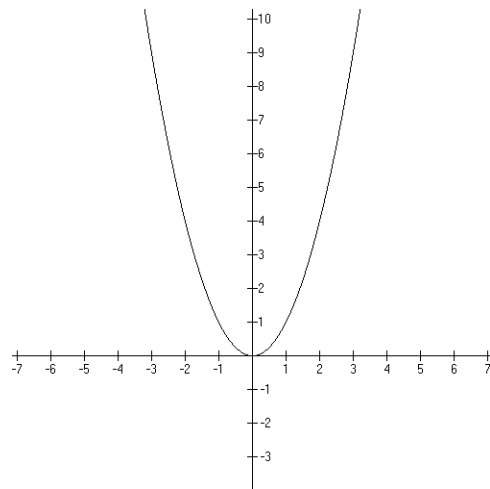


2.

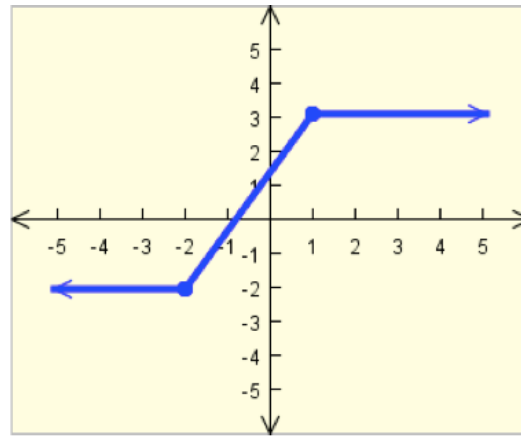
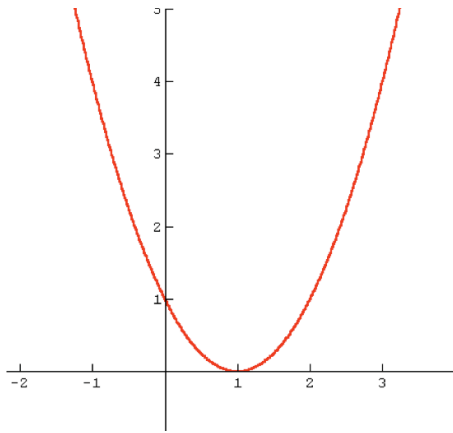
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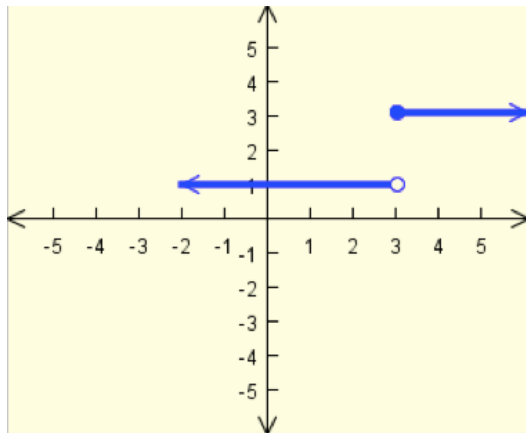
4.



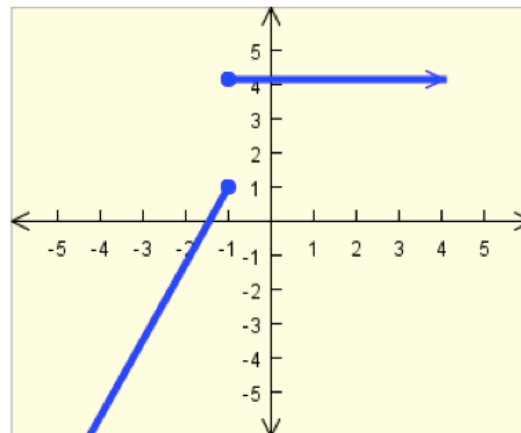
5.



6.



7.



8.  $y = -x^2 + 3x + 2$

9.  $y = x^3 + 3$

## PARENT FUNCTIONS

Identify the shift and parent function of the following functions

1.  $y = \sqrt{x + 2} - 3$
2.  $y = (x - 1)^2 + 4$
3.  $y = x^3 - 3$
4.  $y = |x + 2| - 3$

