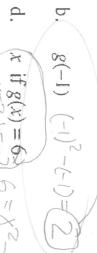
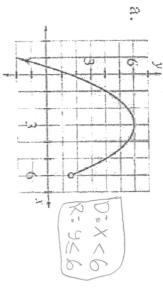
following values Given the functions  $f(x) = \sqrt{x+4}$  and  $g(x) = x^2 - x$ , determine each of the

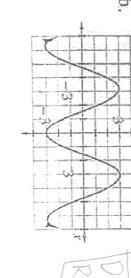


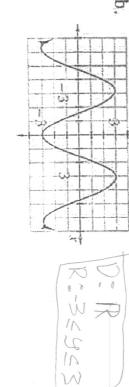
38-1X



- x if f(x) = 10/101 (X+4)
- $(x \text{ if } g(x) = 6x) = 6x = x^2 x \times (x 3)(x + 2)$
- Describe the domain and range for each function.







Algebraically determine the x- and y-intercepts of each function.



- 8-=x8- 018 +x2-
- 2x 3y = -6 3y = 2x + 6 9 = 2x + 2

Solve each equation.

a. 
$$\frac{x+2}{5} = \frac{10-2x}{3}$$

50-10x=3+6

b. 
$$\frac{3}{x} - 1 = 8$$







Closure

Line Of Sym = 
$$(x=1)$$
  $x^2 - 2x + 1 + 9$   $(x-1)^2 - 9$ .

Create a complete graph of the function  $f(x) = x^2 - 2x - 8$  and fully describe it.

CL 1-114, Create a complete graph of the function 
$$f(x) = x^2 - 2x - 8$$
 and fully describe it.  $(x-4)(x+2)$ 

a. 
$$y = 3x + 15$$
  $3x + 15 = 3$   
 $y = 3 - 3x$   $6x = -12$   
 $y = 3 - 3(-2)$ 

$$3x+15=3-3x$$
 b.  $y=x^2$ 

b. 
$$y = x^2 - 3x - 8$$
,  $x^2 - 3x - 10(x - 5)(x + 2)$   
 $y = 2$   
 $(5, 2)$ ,  $(42, 2)$ 

a. 
$$x^2 - x - 6 = 0$$
  
 $(x-3)(x+2)$   
 $(x = 3, x = -2)$ 

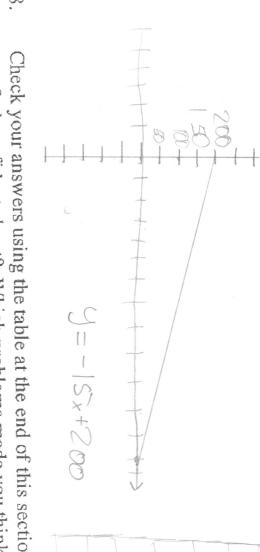
b. 
$$5x^2 - 8 = 12x$$
 &  $5x^2 - 8 = 12x$  &  $5x^2 - |2x - 8| = 0$  |  $2x^2 - |2x - 8| = 0$  |  $2x - |2x -$ 

c. 
$$x^2 - 8x - 20 = 0$$
  
 $(x-10)(x+2)$   
 $(x-10)(x+2)$ 

d. 
$$2y^2 - 5y = 12$$
  
 $2y^2 - 5y = 12$ 

Micah was given \$200 for his birthday. Each week he spends \$15 on comic books. In how many weeks will his birthday money be gone?

between the weeks since Micah's birthday and how much money he has left. How does each representation show the solution to the problem? Create multiple representations (table, graph, and equation) for the relationship



on problems like these in math classes you have taken before? Use the table to you feel confident about? Which problems made you think? Have you worked Check your answers using the table at the end of this section. Which problems do make a list of topics you need help on and a list of topics you need to practice