A. Lesson Context

BIG PICTURE of this UNIT:	• What is meant by the term FUNCTIONS and how do we work with them? • mastery with working with basics & applications of linear functions • mastery with working with basics & applications of linear systems • understanding basics of function concepts and apply them to lines & linear systems		
CONTEXT of this LESSON:	Where we've been In Lesson 1, you reviewed linear relations and learned some basic function ideas	Where we are Working with basic function concepts, independent of linear relations from last lesson	Where we are heading Mastery of working with multiple representations of f(x) = mx + b

B. Lesson Objectives

a. Find the domain and range of a relation.
b. Identify if a relation is a function or not.
c. Work with function notation & evaluating functions.
d. Work with function notation in application based problems.

C. Fast Five (Skills Review Focus)

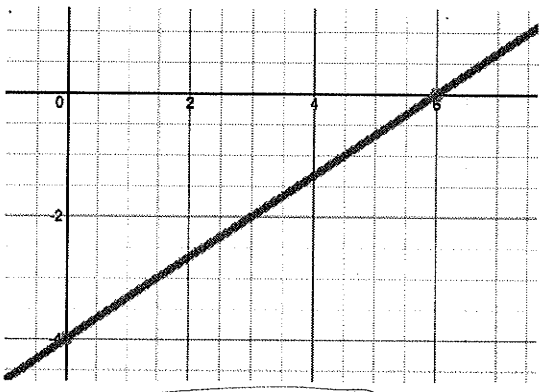
a. Solve $2x-6+3x=3(x+1)-5$

$2x-6+3x=3x+3-5$
$2x-6=-2$
$2x=4$
$x=2$

b. State the slope and y-intercept of the line $y=-2x+5$

$m=-2$
y-int: $(0,5)$

c. Write the equation of the line graphed below.



$y=\frac{2}{3}x-4$

d. Evaluate $f(2)$ if $f(x)=-\frac{1}{4}x+1$

$f(2)=-\frac{1}{4}(2)+1=-\frac{1}{2}+1=\frac{1}{2}$

e. Evaluate $f(6)=2^{3-x}$.

$f(6)=2^{3-6}=2^{-3}=\frac{1}{8}$

f. Solve $4=f(x)$ if $f(x)=-2x+10$ for x.

$4=-2x+10$
$-6=-2x$
$3=x$