3. Given the equation of a line in Standard Form, find the x-intercept and the y-intercept.

EQ:
$$10x - 6y = 30$$

$$x-int=$$

$$\frac{10x - 30}{10}$$

$$x-int = 3$$

$$10x = 30$$

$$10 = 30$$

$$10 = 30$$

$$10 = 30$$

$$10 = 30$$

5. Write the equation of the equation of the line that passes through the two given points. Give your answer in Slope-Intercept Form

$$(4,5)&(-6,10)$$

$$EQ$$
:

$$m = \frac{42 - 4}{22 - 4}$$

$$= \frac{10 - 5}{-10 - 4}$$

$$= \frac{5}{-10} = -\frac{1}{2}$$

4. Write the equation of the equation of the line that passes through the two given points. Give your answer in Point-Slope Form.

$$(5,6)&(-1,8)$$
 q EQ :

$$M = \frac{8-6}{-1-5} = \frac{2}{-6} = \frac{1}{-3}$$

$$y-8=-\frac{1}{3}(x+1)$$
 $y-6=-\frac{1}{3}(x-5)$

Real Life examples of Functions and Nonfunctions:

You look up a word in the dictionary to get a definition:

Input (domain): A word

NO Output (range): Definition

A policman looks up a license plate number to find who it is registered to:

Input (domain): License plate number

Output (range): Who the car is registered to

991

Real Life examples of Functions and Nonfunctions:

The IRS looks up a Social Security Number to find out who the tax return if for:

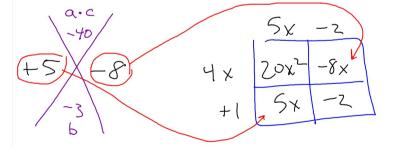
Input (domain): Social Security Number
Output (range): Taxpayers Name

Yes

You look up a friend's name in your address book to find a number you can call them at:

Input (domain): Friend's name Output (range): Phone number NO

Factor:
$$20x^2 - 3x - 2 = (4x+1)(5x-2)$$



Expand:

$$(4w - 3)(2w + 5)$$