

5x +34=6

1) write in Slope-Int Sorm.

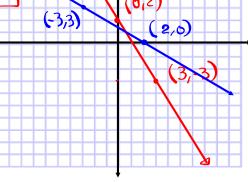
3y = -5x + 6  $y = \frac{-5}{3}x + 2$ 

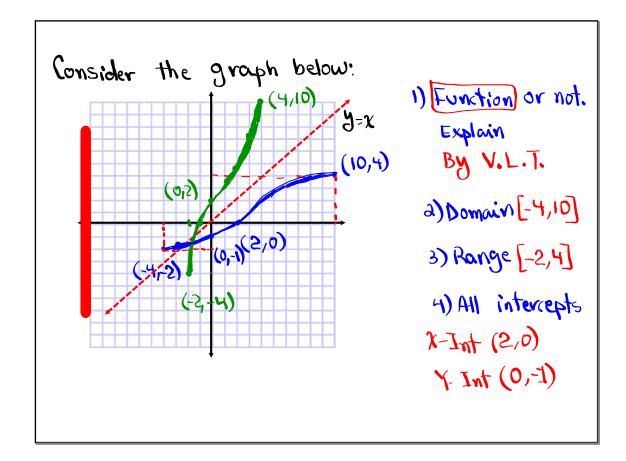
a) write using Sunction

notation.  $\sqrt{S(x)} > \frac{-5}{3}x + 2$ 

(0,2)

- 3) Y-Int (0,2)
- 4) Slope  $m = \frac{-5}{3}$ 
  - 5) Draw





$$f(x) = 3x + 5 \qquad g(x) = 2x - 3$$

Multiplication = Foil & Simplify = 
$$6x^2 + x - 15$$

a) Sind 
$$(508)(x) = 5(8(x))$$

$$=3(2\chi-3)+5=6\chi-4$$

Dist & Simplify

Perform the Sollowing Operation on S(x)=2x+5.

1) Replace S(x) with Y. y=2x+5

$$\frac{1}{2}$$
 = 2 $\chi$  +5

- a) Switch  $\chi \in Y$ .  $\chi = 2y + 5$
- $\chi 5 = 2 \%$ 3) Solve Sor Y.  $\frac{\chi-5}{2}=y$
- 4) Replace y with  $\int_{0}^{2\pi} f(x) dx = \frac{\chi-5}{3}$ Not exponent

Persorm the Sollowing on 
$$S(x) = \frac{1}{2}x - 3$$
.

$$\int = \frac{1}{2} \chi - 3$$

$$\chi = \frac{1}{2} \frac{3}{3} - 3$$

$$\chi_{4}3 = \frac{1}{2} \frac{9}{9}$$

$$2x + 2.3 = 2.\frac{1}{2}$$

$$2x + 6 = 0$$

$$F'(x) = 2x + 6$$

Given 
$$S(x) = \sqrt{\chi - 2}$$

$$\chi = \sqrt{3-2}$$

square both Sides

$$\chi^{2} = (\sqrt{y-2})^{2}$$

$$\chi^2 = 3-2$$

$$\frac{1}{5(x)=x^2+2}$$
  $x^2+2=y$ 

Factor Completely:

1) 
$$4x - 20 = 4(x - 5)$$

a) 
$$4\chi^2 - 25 = (2\chi)^2 - (5)^2 = (2\chi + 5)(2\chi - 5)$$

$$A^2 - B^2$$

3) 
$$8\chi^3 + 27 = (2\chi)^3 + 3^3 = (2\chi + 3)(4\chi^2 - 6\chi + 9)$$

3) 
$$8x^3 + 27 = (2x)^3 + 3^3 = (2x + 3)(4x^2 - 6x + 9)$$
  
4)  $27x^3 - 125 = (3x)^3 - (5)^3 = (3x + 5)(9x^2 + 15x) + 25$   
 $25 - 6^3 - 6^3$