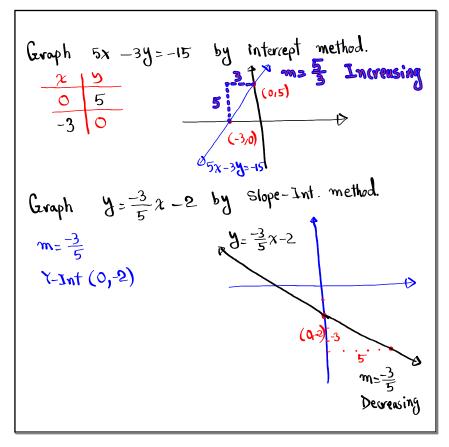
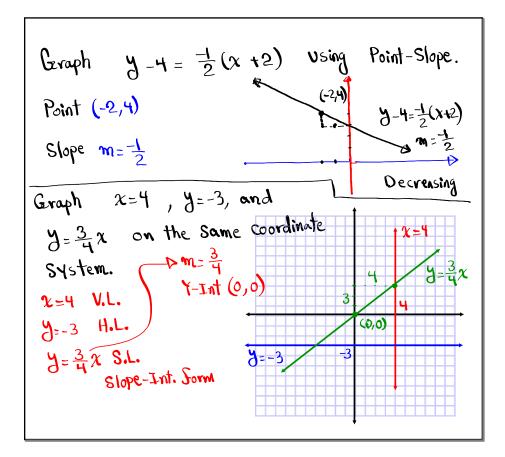
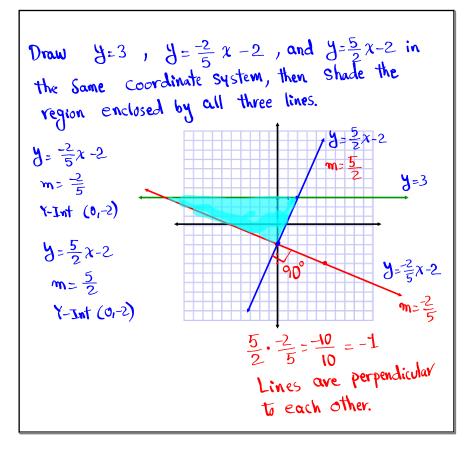
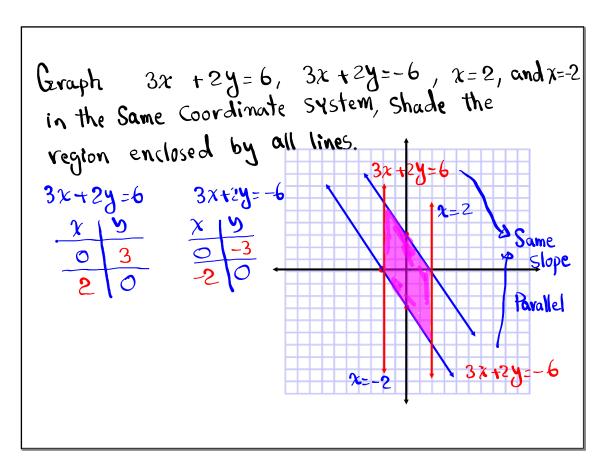


A (-4, 0), B (6, 4)
1) Draw (AB) line Segment
2) Sind midpoint M M (
$$\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$
) = M ($\frac{-4+6}{2}, \frac{0+4}{2}$)
3) Sind Slope M $m = \frac{y_1 - y_2}{x_1 - x_2} = \frac{0-4}{-4-6} = \frac{-4}{-10} = \frac{12}{5}$
d (A, B) = $\sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2} = \sqrt{(-4-6)^2 + (0-4)^2}$ ≈ 100700
 $= \sqrt{(-10)^2 + (-4)^2} = \sqrt{100716} = \sqrt{116}$







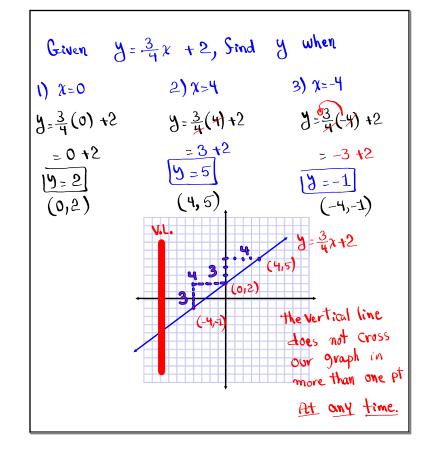


SGE O is due.
$$\sqrt{2}$$
 Ax+By=C $4 \rightarrow y=mx+b$
SGE 1 $4 \rightarrow work$ on it. Standard Slope-Int
Sorm of A a line of a
 $(3x)^{2}+2y = 4$ Standard A line of a (0,2) line of a
 $2y = -3x + 4$ $(0,2)$
 $y = \frac{3}{2}x + \frac{4}{2}$ $y = \frac{3}{2}x + 2$ $m = \frac{3}{2}$
 $x + y = \frac{3}{2}x + 2$ $m = \frac{3}{2}$

L

5x - 3y = 9
1) write in Slope-Int form

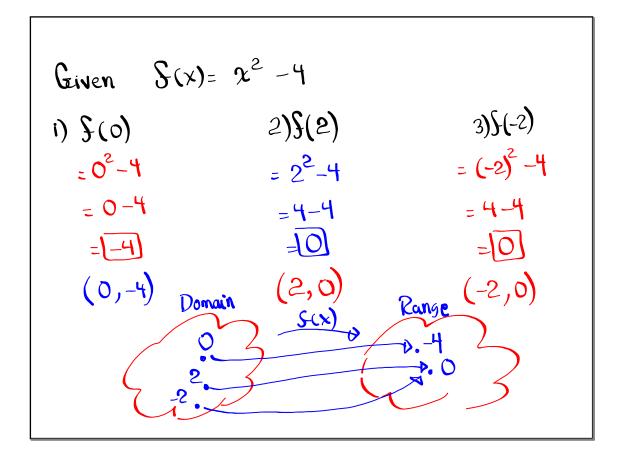
$$5x - 3y = 9$$
 $\Rightarrow \frac{-3}{-3}y = \frac{-5}{-3}x + \frac{9}{-3}$
 $-3y = -5x + 9$ $y = \frac{5}{-3}x - \frac{9}{-3}$
2) Y-Int (0,-3)
3) Slope $m = \frac{5}{3}$
 $y = \frac{5}{3}x - \frac{5}{3}$
Increasing
 $(0,-3)$ m>0



Introduction to Sunctions:
Functions are relationship between two
groups
1) Input values
$$\Rightarrow$$
 Domain \Rightarrow 2-values
2) Output values \Rightarrow Range \Rightarrow Y-values
To have a Sunction, Sor any 2-value from
the domain, there can be only one value
in the range. Rule,
Relationship Range
 $\xrightarrow{2}$

Function notation
$$y = S(x)$$

" $S \circ S x$ "
 $x \rightarrow Domain \rightarrow input$
 $y=S(x) \rightarrow Range \rightarrow output$
 $t_x: S(x) = \frac{3}{4}x + 2$
 $F(\circ) = \frac{3}{4}(\circ) + 2 = 0 + 2 = 2 = p(0,2)$
 $F(4) = \frac{3}{4}(4) + 2 = 3 + 2 = 5 \Rightarrow (4, 5)$
 $S(-4) = \frac{3}{4}(-4) + 2 = -3 + 2 = -1 \Rightarrow (-4, 5)$

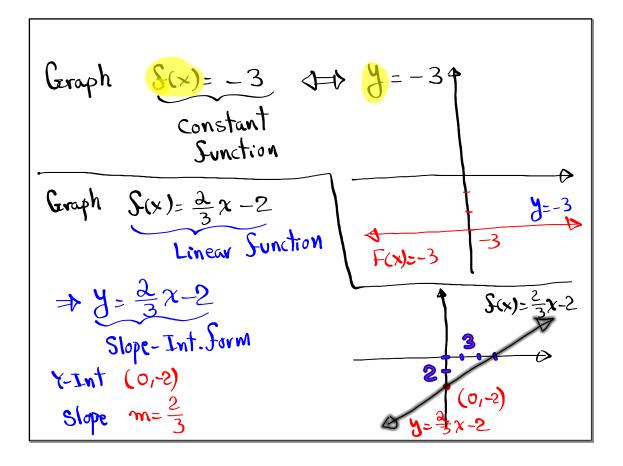


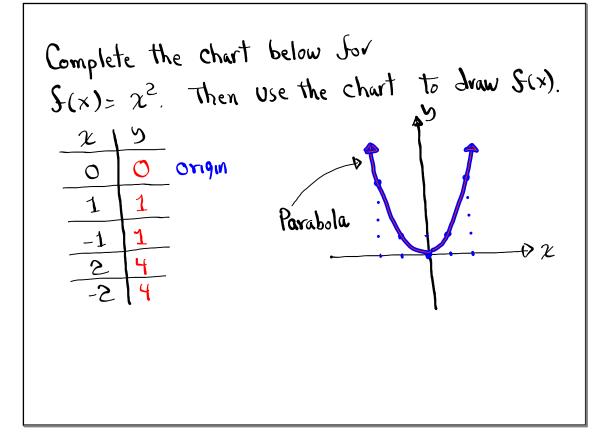
$$\begin{cases} (x) = |x + 2| - 2 \\ 1 \\ (x) = |x + 2| - 2 \\ 1 \\ (x) = |0 + 2| - 2 \\ (x) = |-2 + 2| - 2 \\ (x) = |-4| - 2 \\ (x) = |-4|$$

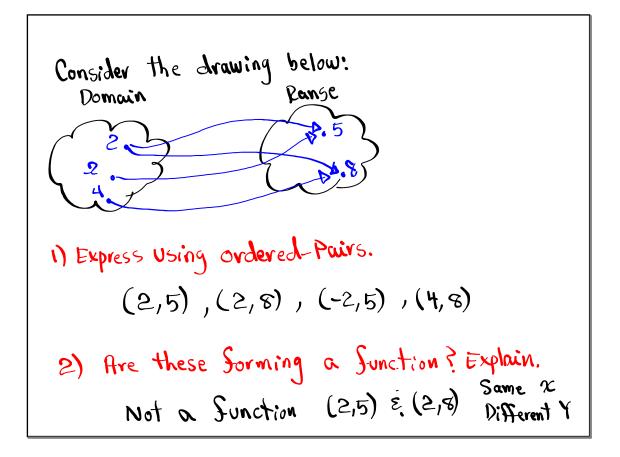
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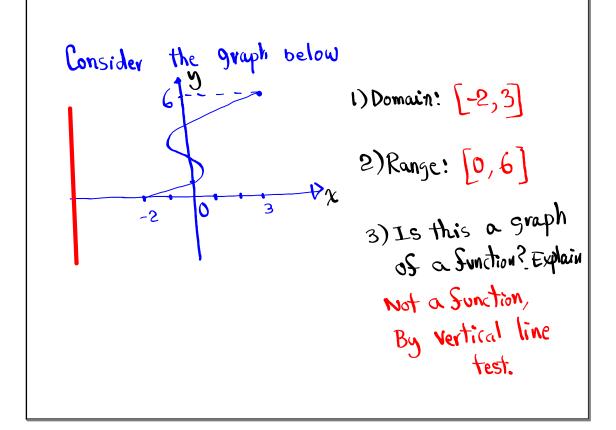
Even
$$f(x) = \frac{x^2 - 4}{x - 2}$$
, find
Non Zero = Zero
Non Zero = Undefined
Zero

Special Sunctions f(x) = p1) Constant Sunction f(x) = mx + b2) Linear Sunction $S(x) = \chi^2$ 3) Square Sunction f(x)=4 + y=4 => Horizontal line Constant Sunction









Portrait Style only.
1) Graph

$$2x-5y=-10$$

by intercept Method.
Class QZ 3
2) Graph
 $y=-\frac{5}{2}x-2$ Using
Slope-Int. method