

Simplisy:
$$(\chi^{5})^{4} \cdot (\chi^{2})^{5}$$
 $(\chi^{m})^{n} = \chi^{mn}$

$$= \chi^{5 \cdot 4} \cdot \chi^{-2 \cdot 5} \qquad \chi^{m} \cdot \chi^{n} = \chi^{m+1}$$

$$= \chi^{20} \cdot \chi^{-10} = \chi^{20} + (-10) = \chi^{10}$$
Solve and graph
$$-6 \leq 5\chi - 4 < 11$$

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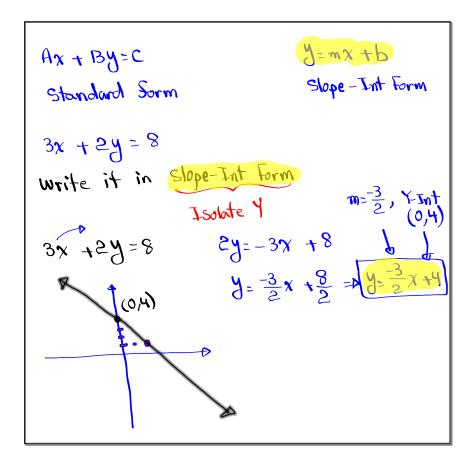
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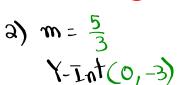
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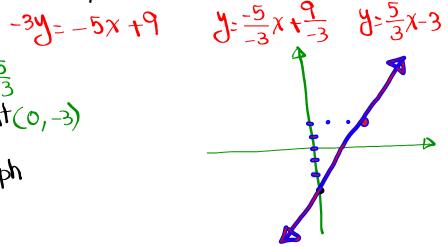


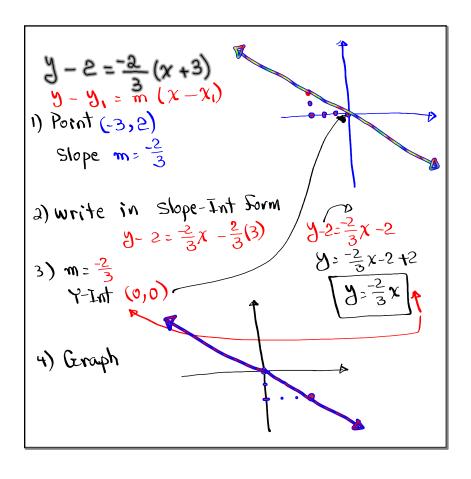
1) write in slope-Int Sorm

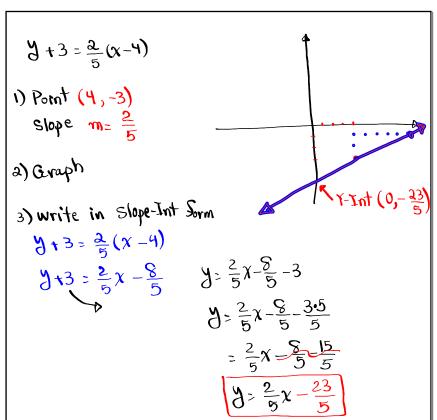
$$-3y = -5x + 9$$



3) Graph







Write
$$y_{+3} = \frac{2}{5}(x-4)$$
 in slope-Int Form.
LCD=5
$$5y_{+5\cdot 3} = 5\cdot \frac{2}{5}(x-4)$$

$$5y_{+15} = 2x - 8$$

$$5y_{-2}x - 8 - 15$$

$$5y_{-2}x - 23 \qquad m = \frac{2}{5}$$

$$y_{-2}x - \frac{23}{5}$$

$$y_{-1}x_{1} = \frac{2}{5}x - \frac{23}{5}$$

Introduction to Sunctions:

Function is a Sormula or Pattern that takes input values and returns an output value Sor every input value.

There is only one output value Sor any input value.

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Function notation

For now

For now

For now x = 0

Given
$$S(x) = x^2 - 4$$

Find
1) $S(0) = 0^2 - 4$ Input 0 2) $S(2) = 2^2 - 4$
 $= 0 - 4$ output -4 $= 4 - 4$
 $= -4$ output 0
 $= 4 - 4$ input -2
 $= 0$ output 0

Find

1)
$$F(0) = |0-3|$$

2) $F(3) = |3-3|$

2) $F(-3) = |3-3|$

3) $F(-3) = |-3-3|$

\$20/hr

1 hr \rightarrow \$20

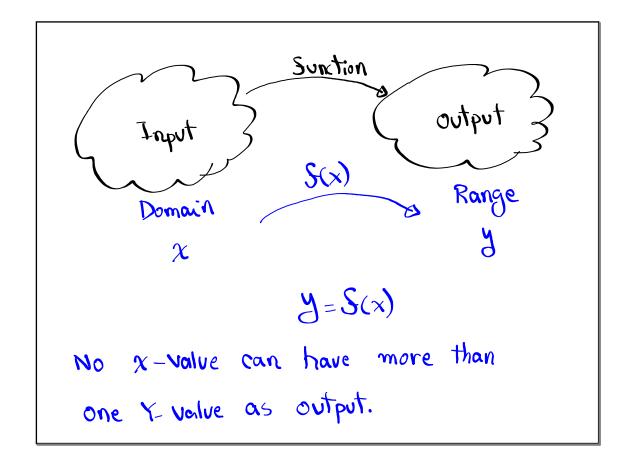
2 hrs \rightarrow 2.20 = \$40

5 hrs \rightarrow 5.20 \$100

 $F(x) = |20x|$

hrs make

worked



Ax + By = C

Standard Sorm

of a line

$$f(x) = \frac{2}{3}x - 2$$

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

$$f(x) = \frac{2}{3}x - 2$$

$$f(0,-2)$$

$$f(x) = \frac{2}{3}x - 2$$

$$f(0,-2)$$

