Block: Algebra Daily 3 Week 6

Wednesday

Factor the following expression.

$$-6x^2 - 3x - 12x - 6$$

$-3(2x^2+x+4x+2)$

$x(2x+1)+2(2x+1)$

$-3(2x+1)(x+2)$

Solve by elimination

$$2(3x + y = 8)$$
$$2x - 2y = -10$$

$6x+2y=16$

$\frac{8x}{8} = \frac{16}{8}$ $x=\frac{3}{4}$

$3(\frac{3}{4})+y=8$ $(\frac{3}{4}, 5\frac{3}{4})$

$\frac{9}{4}+y=8-9/4$

$-9/4$ $y=8-2\frac{1}{4}$ $y=5\frac{3}{4}$

Find the average rate of change for $-3 < x < 4$ for

$$f(x) = \frac{3}{2}x - 5$$

x_1 x_2

$\frac{1-(-9.5)}{4-(-3)}$ $-9/2-5$

$-4.5-5$

$(-3, -9.5)$ $(4, 1)$

x_1 y_1 x_2 y_2

$RoC = \frac{3}{2} = \frac{10.5}{7}$

$f(-3)=\frac{3}{2}(-3)-5$

$f(4)=\frac{3}{2}(4)-5$

$=6-5=1$

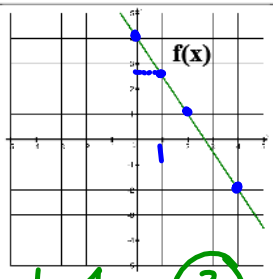
Find the domain and range of the table below.

x	-3	8	-2	0
F(x)	-1	3	-1	2

D: {-3, -2, 0, 8}

R: {-1, 2, 3}

Use the graph of f(x) to answer the questions below.



f(1) = 2.5

f(x) = -2, x = 4

RoC for $0 < x < 2$

(0, 4) (2, 1)

$\frac{1-4}{2-0} = \frac{-3}{2}$