Daily Agenda

Learning Targets: I can use a system of equations to model. I can solve a system with augmented matrices.

Homework

2.1 Day 2 Worksheet

Assessments

2.1 to 2.2 Quiz - 9/22

Do one thing everyday that scares you. -Eleanor Roosevelt

Areas of Strength

- writing equations of lines function notation
- word problems
- showing all work

Areas for Growth

- precision
- · reading directions
- working with fractions
- giving answers in a domain

If you scored below a 75%, do not panic. You need to come in to see me for help so that we can discuss your progress and a plan to get you to a level of mastery.

Nov 15-8:24 PM Sep 6-10:08 AM

Cops and Robbers

Robin Banks robs a bank and drives off. A short time later, he passes a truck stop at which police officer, Willie Katchup is dining. Willie receives a call from his dispatcher, and takes off in pursuit of Robin.

If t= # min since Robin passed truck stop f(t)= # km Robin has gone past truck stop g(t)=# km Willie has gone from truck stop

Robin's equation is f(t)=.75t

Willie's equation is g(t)=2(t-5)

Make a prediction... can Willie catch Robin? When?

Given:

If t= # min since Robin passed truck stop f(t)= # km Robin has gone past truck stop g(t)=# km Willie has gone from truck stop

Robin's equation is f(t)=.75t

Willie's equation is g(t)=2(t-5)

When and where do they meet?

t= 8min

·75+=2+-10

What is Robin's speed in km/hr? Willie's? dist= 6 km
Robin: • 75 km • 60 min = 45 km/hr 2km. 60min = 120km/hr

Sep 11-10:00 AM

Aug 31-10:40 PM

-rectangular array of numbers

augmented matrix

-derived from a system of linear equations

$$ax + by = c$$
$$dx + ey = f$$

$$\begin{bmatrix} a & b & c \\ d & e & f \end{bmatrix}$$

To solve a system with an augmented matrix, we need to transform it into reduced row echelon form (RREF)

To solve, we need to use RREF (Reduced Row Echelon Form)

Steps

Enter Matrix Menu Edit, Matrix A (2x3) **Enter Values** Quit Enter Matrix Menu MATH, RREF Enter Matrix Menu Choose Matrix Name Enter

Solve Using Augmented Matrices

$$10x - 3y = 46$$

$$x - 7y = 18$$

Solve Using Augmented Matrices

$$4x - 3y = 17$$

$$2x - 9y = 38$$

Sep 15-10:40 PM

Sep 15-10:40 PM