Quiz #3 (2.14 - 2.20) Rev

Algebra 1

Name:

④ Solve for x and y !!!

Lesson 15: Solving Systems by Elimination (Part 2)

Lesson 16: Solving Systems by Elimination (Part 3)

- ☐ I can solve systems of equations by multiplying each side of one or both equations by a factor, then adding or subtracting the equations to eliminate a variable.
- ☐ I understand that multiplying each side of an equation by a factor creates an equivalent equation whose graph and solutions are the same as that of the original Equation.

(DM: Elimination)

① $-5x+7y=40$
$-10x-7y=25$

$\frac{-15x}{-15} = \frac{15}{-15}$

$x=-1$

$-5(-1)+7y=40$
$5+7y=40$
$\frac{7y}{7}=\frac{35}{7}$
$y=5$

② $-7x-6y=-1$ (*2)
$14x+5y=9$
$-14x-12y=-2$ (+)

$14x+5(-1)=9$
$14x-5=9$
$+5 \quad +5$
$\frac{14x}{14}=\frac{14}{14}$
$x=1$

$\frac{-7y}{-7}=\frac{7}{-7}$
$y=-1$

③ $5x-5y=0$
$4x-6y=-18$
$x=9, y=9$

Lesson 17: Systems of Linear Equations and Their Solutions

④ Notes → graphs, solve?, slopes

- ☐ I can tell how many solutions a system has by graphing the equations or by analyzing the parts of the equations and considering how they affect the features of the graphs.
- ☐ I know the possibilities for the number of solutions a system of equations could have.

(DM: Number of solutions)

④ $x+y=6$ (*2)
$-2x-2y=-12$
$2x+2y=12$

$0=0$

(always true)

infinite # of solutions

⑤ $2x+y=4$ (*2)
$4x+4y=11$
$-4x-2y=8$ (+)

$2y=3$

y or x left

One solution

⑥ $3x+4y=-4$ (*-5)
$15x+20y=-22$
$-15x-20y=20$

$0=-2$

(never true)

no solution

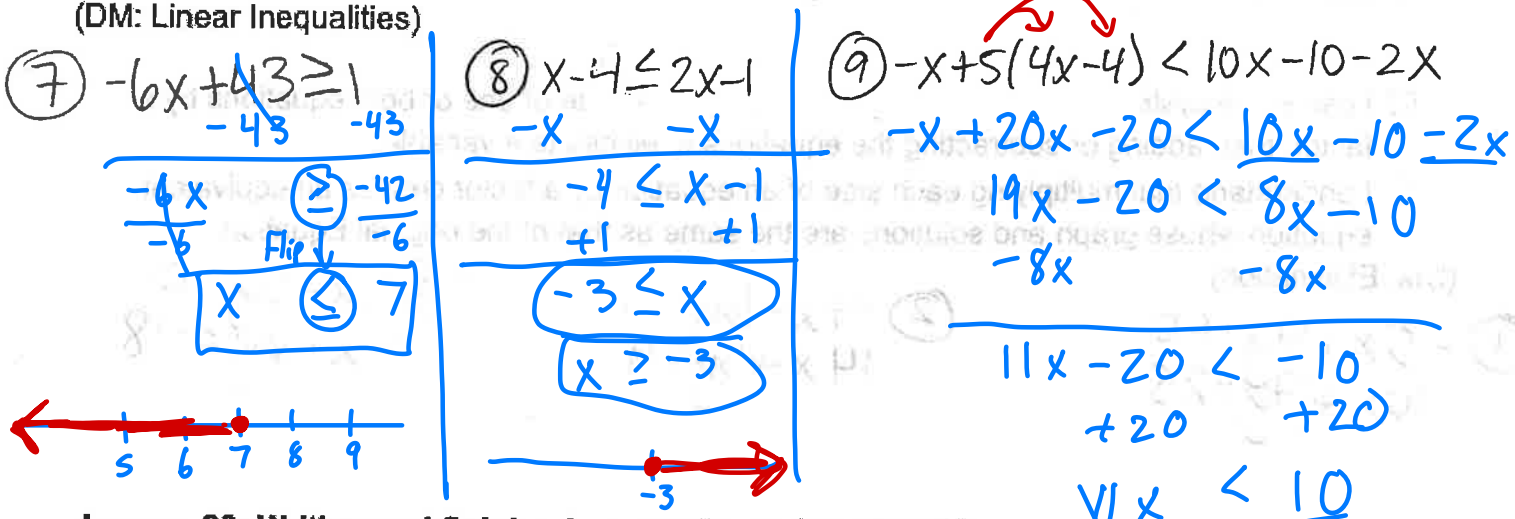
Lesson 18: Representing Situations with Inequalities

- ☐ I can write inequalities that represent the constraints in a situation.

Lesson 19: Solutions to Inequalities in One Variable

- ☐ I can graph the solution to an inequality in one variable.
- ☐ I can solve one-variable inequalities and interpret the solutions in terms of the situation.

(DM: Linear Inequalities)



Lesson 20: Writing and Solving Inequalities in One Variable

- ☐ I can analyze the structure of an inequality in one variable to help determine if the solution is greater or less than the solution to the related equation.
- ☐ I can write and solve inequalities to answer questions about a situation.

(DM: Write single inequality from context)

(DM: Write and solve inequalities in context)

Solve inequalities like equations

Warning alarm! → × or ÷ by negative number

↳ Flip Sign

Double-check when finished