Journal Entry:

Compare and Contrast:
Explain how the substitution method is
different from the elimination method.
How are they the same?

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Section 3-3
Systems of Inequalities

Students will be able to solve systems of
inequalities

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The solution to a system of inequalities is
best shown as a graph. The solutions
are the part of the graph that satisfies
both of the inequalities.

What does it mean if
an ordered pair is
in the yellow region?

White?

(0,-3)

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Solve the system of inequalities:

$-x - 2y \geq -4$
$y \geq -x - 1$

$-x - 2y \geq -4$
$-2y \geq x - 4$
$y \leq -\frac{1}{2}x + 2$

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Solve the system.

$2x + y < 1$
$y > -2x + 3$

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Solve:

① $2y - 4x \leq 0$

② $x \geq 0$

③ $y \geq 0$
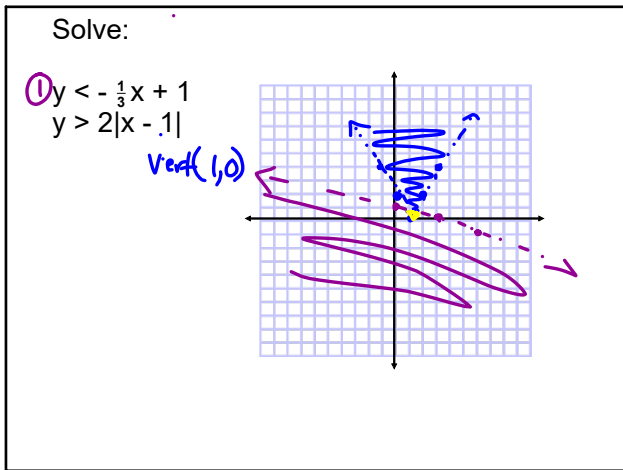
$\frac{2y}{2} \leq \frac{4x}{2}$

$y \leq 2x$
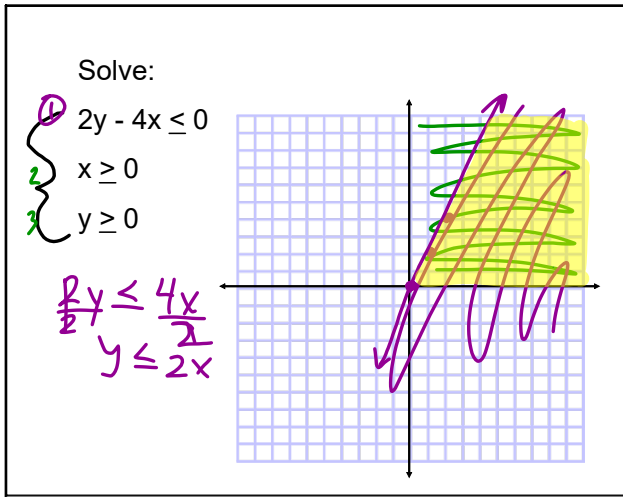
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Tickets to a concert cost $70, or $20 with a student discount. Ticket sales must exceed $500,000 for the group to perform. If 20,000 seats are available, how many of each type must be sold?

$70x + 20y \geq 500,000$

$x + y \leq 20,000$

$x \geq 0$

$y \geq 0$

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Solve:

① $y < -\frac{1}{3}x + 1$

$y > 2|x - 1|$

Vert (1, 0)

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Hwk: pg. 153 - 155
31, 34, 36 - 56 evens,
64 - 72 evens

Quiz tomorrow over 3.1-3.3

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