Algebra 2 3.2
Solve systems of inequalities by graphing
**Algebra 1 Ch. 5
Determine the coordinates of vertices of feasible regions

y=mx+b
slope
y-intercept
system of equations <>
inequality
test point
open interval
closed interval
vertex (p. vertices) - cord.
whiteboards

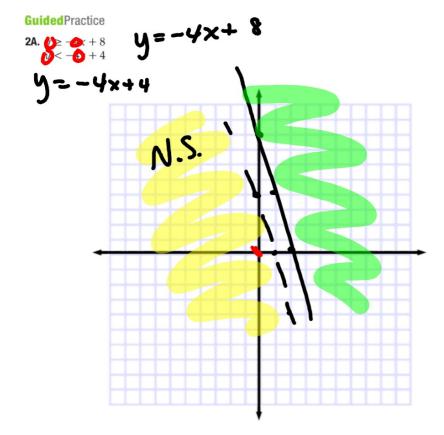
KeyConcept Solving Systems of Inequalities



Step 1 Graph each inequality, shading the correct area.

Step 2 Identify the region that is shaded for all of the inequalities. This is the solution of the system.

Algebra 1 Ch. 5

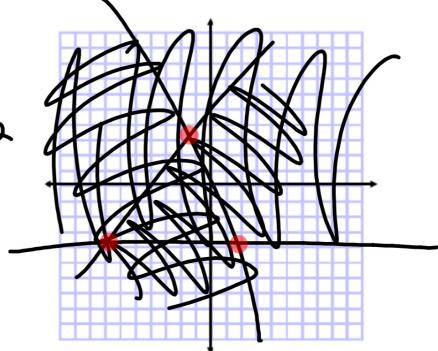


GuidedPractice

Find the coordinates of the vertices of inequalities.

4A.
$$y \ge -3x - 6$$

 $2y \ge x - 16$
•• $11y + 7x \le 12$



The sum of two integers is 93. The first number is twice as large as the second number. What are the numbers?

$$5 = X = 1S^{+}$$

$$-3|= y = 2M$$

$$2x = -10$$

$$\frac{2x = -10}{2}$$