EXTRA PRACTICE — Exercises

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Unit III – First Degree Relations with Two Placeholders Part D – Solution Sets for Systems of Two Open Sentences **Lesson 2 – Graphic Solution for Inequalities**

Find the solution set for each of the following systems of simultaneous linear inequalities by graphing the solution set line of each in the same rectangular coordinate system.

1.
$$y < x + 5$$

$$y < -x + 1$$

$$y < x + 4$$

3.
$$4x - y^{-3}$$

4.
$$x + y > 1$$

$$3x - 2y > 4$$

$$y < ^{-}2x + 1$$

6.
$$y = 3x - 4$$

$$y = 6 - x$$

7.
$$2x + 3y > 12$$

$$-3y > 6 - 4x$$

8.
$$y < 2$$

$$y = \frac{1}{2}x - 1$$

9.
$$y + x = 1$$

$$^{-}2y < 8 - 3x$$

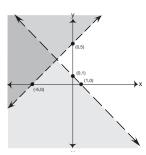
EXTRA PRACTICE — Answer Key

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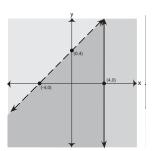
Unit III – First Degree Relations with Two Placeholders Part D – Solution Sets for Systems of Two Open Sentences Lesson 2 - Graphic Solution for Inequalities

Find the solution set for each of the following systems of simultaneous linear inequalities by graphing the solution set line of each in the same rectangular coordinate system.

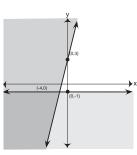
$$1. \quad y < x + 5$$
$$y < -x + 1$$



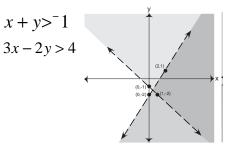
$$\begin{array}{ll}
2. & x \le 4 \\
 & y < x + 4
\end{array}$$



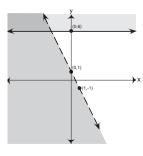
$$3. 4x - y \le 3$$
$$y \le 1$$



4.
$$x + y > 1$$



$$5. \ 6 \le y$$
$$y < -2x + 1$$



6.
$$y \le 3x - 4$$

 $y \ge 6 - x$

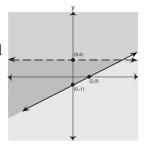
7.
$$2x + 3y > 12$$

$$2x + 3y > 12$$

$$-3y > 6 - 4x$$

$$(6.0)$$

8.
$$y < 2$$



9.
$$y + x \ge 1$$



