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. $y < x + 5$

   $y < -x + 1$

2. $x \ \ 4$

   $y < x + 4$

3. $4x - y \ \ ^-3$

   $y \ \ ^-1$

4. $x + y > {}^-1$

   $3x - 2y > 4$

5. $6 \ \ y$

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

6. $y \ \ 3x - 4$

   $y \ \ 6 - x$

7. $2x + 3y > 12$

   $^-3y > 6 - 4x$

8. $y < 2$

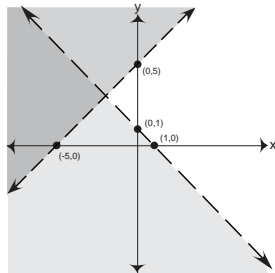 $y \ \ \dfrac{1}{2}x - 1$
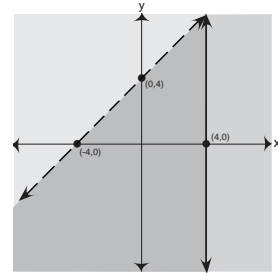
9. $y + x \ \ 1$

   $^-2y < 8 - 3x$

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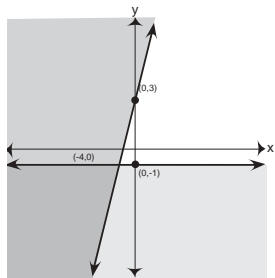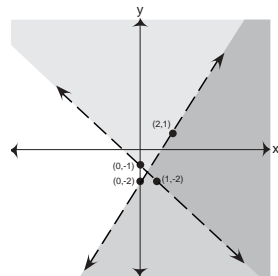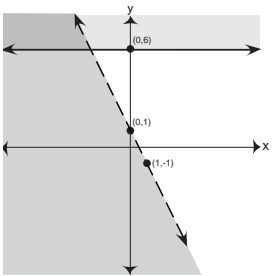
1. $y < x + 5$

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2. $x \le 4$

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

   $y \le {}^-1$

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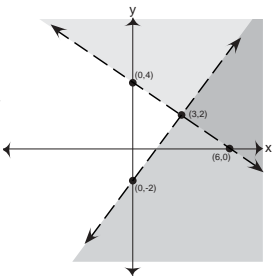
6. $y \le 3x - 4$
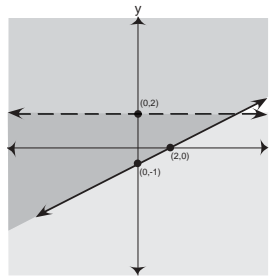
   $y \ge 6 - x$

7. $2x + 3y > 12$

   ${}^-3y > 6 - 4x$

8. $y < 2$

   $y \ge \dfrac{1}{2}x - 1$

9. $y + x \ge 1$

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