

Lesson #4 Assignment

Answer Key

- For which system(s) of inequalities, if any, will $(0, 0)$ result in a true statement for both, making it a possible solution for the system?
 - $y > 9$ and $x < 5$
 - $3x - 2y < 1$ and $y > x - 2$
 - $y \leq 6 - 2x$ and $3x < 12 - 8y$
 - $y - 2x \geq 10$ and $5 - 7x > 4y$
- For which system(s) of inequalities, if any, will $(-3, 1)$ result in a true statement for both, making it a possible solution for the system?
 - $y > 9$ and $x < 5$
 - $3x - 2y < 1$ and $y > x - 2$
 - $y \leq 6 - 2x$ and $3x < 12 - 8y$
 - $y - 2x \geq 10$ and $5 - 7x > 4y$
- For which system(s) of inequalities, if any, will $(6, -2)$ result in a true statement for both, making it a possible solution for the system?
 - $y > 9$ and $x < 5$
 - $3x - 2y < 1$ and $y > x - 2$
 - $y \leq 6 - 2x$ and $3x < 12 - 8y$
 - $y - 2x \geq 10$ and $5 - 7x > 4y$

None
- For which system(s) of inequalities, if any, will $(11, -2)$ result in a true statement for both, making it a possible solution for the system?
 - $y > 9$ and $x < 5$
 - $3x - 2y < 1$ and $y > x - 2$
 - $y \leq 6 - 2x$ and $3x \leq 12 - 8y$
 - $y - 2x \geq 10$ and $5 - 7x \geq 4y$
- Which test point(s), if any, result in true statements for **both** of the inequalities in this system:
 $-3x + 2y < 9$ and $y < 2x + 6$
 - $(1, -1)$
 - $(-2, 5)$
 - $(2, 2)$
 - $(-4, -3)$
- Which test point(s), if any, result in true statements for **both** of the inequalities in this system:
 $x + y < 3$ and $y < -x$
 - $(3, -4)$
 - $(0, 6)$
 - $(-2, 2)$
 - $\left(\frac{1}{2}, \frac{1}{2}\right)$
- Which test point(s), if any, result in true statements for **both** of the inequalities in this system:
 $5x - 2y \leq 4$ and $6x - 8 \geq -3y$
 - $(0, -1)$
 - $(2, 0)$
 - $(0, 0)$
 - $(4, -2)$