

Given a system of linear equations and a "guess", determine if the guess is less than or greater than the actual solution, and why this must be the case.

1. $y_1 = -2x + 9$
 $y_2 = 8x - 21$
guess is $x = 0$

2. $y_1 = -4x + 23$
 $y_2 = 4x - 17$
guess is $x = 0$

3. $y_1 = -7x - 6$
 $y_2 = 3x + 4$
guess is $x = 0$

4. $y_1 = 5x + 14$
 $y_2 = 8x + 23$
guess is $x = 0$

5. $y_1 = 3x - 3$
 $y_2 = 8x + 2$
guess is $x = 0$

6. $y_1 = 3x - 14$
 $y_2 = x - 6$
guess is $x = 0$

7. $y_1 = -4x - 6$
 $y_2 = 7x + 16$
guess is $x = 0$

8. $y_1 = 6x + 11$
 $y_2 = x - 4$
guess is $x = 0$

9. $y_1 = 8x - 8$
 $y_2 = 5x - 5$
guess is $x = 0$

10. $y_1 = -6x + 17$
 $y_2 = 4x - 13$
guess is $x = 0$

11. $y_1 = x - 1$
 $y_2 = 4x + 5$
guess is $x = 0$

12. $y_1 = 4x - 16$
 $y_2 = -7x + 6$
guess is $x = 0$