

1) Find the solution of the following linear systems. Remember that you will need to determine the slope and y-intercept of each line first.

a)  b) 

Sketch: Sketch:

Point of Intersection: Point of Intersection:

|  |  |
| --- | --- |
| Am I Right?? Check your answer to part a) | |
| Line #1 | Line #2 |
|  |  |

c)  d) 



Point of Intersection: Point of Intersection:

e) f)



Point of Intersection: Point of Intersection:

Answers: a) (2, 7) b) (-3, -4) c) (2, 3) d) (-3, 1) e) (6, -2) f) (8, -1)

2) Solve the following linear systems using algebra. Mr. Smith has provided a table for you for the first few.

|  |  |
| --- | --- |
| a) ➀  ➁ | |
| 1) Set the equations equal, and solve for “x” | 2) Sub your value for “x” into either equation |
|  |  |
| Point of Intersection = ( , ) | |

|  |  |
| --- | --- |
| b) ➀  ➁ | |
| 1) Set the equations equal, and solve for “x” | 2) Sub your value for “x” into either equation |
|  |  |
| Point of Intersection = ( , ) | |

|  |  |
| --- | --- |
| c) ➀  ➁ | |
| 1) Set the equations equal, and solve for “x” | 2) Sub your value for “x” into either equation |
|  |  |
| Point of Intersection = ( , ) | |

|  |  |
| --- | --- |
| d) ➀  ➁ | |
| 1) Set the equations equal, and solve for “x” | 2) Sub your value for “x” into either equation |
|  |  |
| Point of Intersection = ( , ) | |

|  |  |
| --- | --- |
| e) ➀  ➁ | |
| 1) Set the equations equal, and solve for “x” | 2) Sub your value for “x” into either equation |
|  |  |
| Point of Intersection = ( , ) | |

f) ➀

➁

g) ➀

➁

h) ➀

➁

i) ➀

➁

Solutions to #2: a) (-4, -13) b) (6, 65) c) (-5, -4.5) d) (3, 16) e) (1, 2.6) f) (6, 5)

g) (4, 4) h) (1, 2.9) i) (2, 6.9)