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. ➄ each.

/48 or Level:

a) $y=\frac{1}{2}x-4$ b) $y=2x-7$

 $y=-\frac{1}{2}x+4$ $y=x-3$

Sketch: Sketch:

Point of Intersection: Point of Intersection:

c) $y=\frac{1}{5}x-2$ d) $y=\frac{3}{4}x+5$

 $y=x-10$ $y=-\frac{1}{2}x-5$

Sketch: Sketch:

Point of Intersection: Point of Intersection:

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

|  |
| --- |
| a) $y=5x+5$ ➀$ y=7x+3$ ➁ |
| 1) Set the equations equal, and solve for “x” | 2) Sub your value for “x” into either equation |
|  |  |
| Point of Intersection = ( , ) |

|  |
| --- |
| b) $y=15x+19$ ➀$ y=9x+25$ ➁ |
| 1) Set the equations equal, and solve for “x” | 2) Sub your value for “x” into either equation |
|  |  |
| Point of Intersection = ( , ) |

|  |
| --- |
| c) $y=3.5x-2$ ➀$ y=1.5x+2$ ➁ |
| 1) Set the equations equal, and solve for “x” | 2) Sub your value for “x” into either equation |
|  |  |
| Point of Intersection = ( , ) |

|  |
| --- |
| d) $y=-5x+2$ ➀$ y=4x+47$ ➁ |
| 1) Set the equations equal, and solve for “x” | 2) Sub your value for “x” into either equation |
|  |  |
| Point of Intersection = ( , ) |

|  |
| --- |
| e) $y=0.2x+1.4$ ➀$ y=0.5x+0.5$ ➁ |
| 1) Set the equations equal, and solve for “x” | 2) Sub your value for “x” into either equation |
|  |  |
| Point of Intersection = ( , ) |

3) Solve the following linear systems. Mr. Smith has not given you the structure for these.

f) $y=\frac{1}{2}x-2$ ➀

$ y=x-7$ ➁

g) $y=\frac{3}{4}x+1$ ➀ $ $

$ y=\frac{1}{4}x+5$ ➁

Point of Intersection = ( , ) Point of Intersection = ( , )

h) $y=1.2x+3$ ➀

$ y=0.5x+10$ ➁

i) $y=0.32x+0.45$ ➀

$ y=0.24x+0.85$ ➁

Point of Intersection = ( , ) Point of Intersection = ( , )