Systems: 4 points 2 from two different lines

Find the solution of the system of equations given 2 points from 1 line and 2 points from a different line.

Example 1: Line 1: (3, 7) & (-1, -5) and Line 2: (2, -1) & (-4, 11) Step 1: Find the slope of Line 1 and Line 2. Line 1 Line 2

Step 2: Find the y-intercept of Line 1 and Line 2.

Line 1	Line 2

Step 3: Write the equation of Line 1 and Line 2 in y = mx + b.

Line 2 Equation:

Example 2: Line 1: (-7, -5) & (7, -19) and Line 2: (2, 6) & (3, 10) Step 1: Find the slope of Line 1 and Line 2. Line 1 Line 2

Step 2: Find the y-intercept of Line 1 and Line 2.

Line 1	Line 2

Step 3: Write the equation of Line 1 and Line 2 in y = mx + b.

Line 1 Equation:

Line 2 Equation:

Problem #1: Line 1: (-6, 10) & (11, -7)

Step 1: Find the slope of Line 1 and Line 2. Line 1

Line 2

and

Step 2: Find the y-intercept of Line 1 and Line 2.

Line 1	Line 2

Step 3: Write the equation of Line 1 and Line 2 in y = mx + b.

Line 1 Equation:

Line 2 Equation:

Problem #2: Line 1: (0, -4) & (5, 11) and Line 2: (3, -1) & (-5, -17)

Step 1: Find the slope of Line 1 and Line 2. Line 2 Line 1

Step 2: Find the y-intercept of Line 1 and Line 2.

Line 1	Line 2

Step 3: Write the equation of Line 1 and Line 2 in y = mx + b.

Line 1 Equation:

Line 2 Equation:

Problem #3: Line 1: (1, -2) & (-1, -3) and

Step 1: Find the slope of Line 1 and Line 2. Line 1 Line 1

Line 2

Step 2: Find the y-intercept of Line 1 and Line 2.

Line 1	Line 2

Step 3: Write the equation of Line 1 and Line 2 in y = mx + b.

Line 1 Equation:

Line 2 Equation:

Problem #4: Line 1: (12, 10) & (-8, -5)

Step 1: Find the slope of Line 1 and Line 2. Line 1

Line 2

and

Step 2: Find the y-intercept of Line 1 and Line 2.

Line 1	Line 2

Step 3: Write the equation of Line 1 and Line 2 in y = mx + b.

Line 1 Equation:

Line 2 Equation:

Problem #5: Line 1: (-1, -20) & (-1, -30)

Step 1: Find the slope of Line 1 and Line 2. Line 1

Line 2

Step 2: Find the y-intercept of Line 1 and Line 2.

Line 1	Line 2

Step 3: Write the equation of Line 1 and Line 2 in y = mx + b.

Line 1 Equation:

Line 2 Equation: