Solving Systems by Inspection

Analyze the following systems and determine the solution for each system. Justify your steps for each system.

x + y = 3 x + 3y = 9	2x – 4y = -8 2x – 5y = -10
3x – 4y = 6 x – 4y = 2	x – y = 7 x + y = 9
5x + y = -1 10x + 2y = -2	2x + 4y = 12 2x – y = 22
-2y + x = 4 -3y + x = 6	10x + 3y = 13 10x – y = 9
4y – x = 0 3y – x = 0	5x + 4y = 14 3x + 4y = 10

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$x + y = 3$ $x + 3y = 9$ **(0,3)**	$2x - 4y = -8$ $2x - 5y = -10$ **(0,2)**
$3x - 4y = 6$ $x - 4y = 2$ **(2,0)**	$x - y = 7$ $x + y = 9$ **(8,1)**
$5x + y = -1$ $10x + 2y = -2$ **(All real #s)**	$2x + 4y = 12$ $2x - y = 22$ **(10,-2)**
$-2y + x = 4$ $-3y + x = 6$ **(0,-2)**	$10x + 3y = 13$ $10x - y = 9$ **(1,1)**
$4y - x = 0$ $3y - x = 0$ **(0,0)**	$5x + 4y = 14$ $3x + 4y = 10$ **(2,1)**