Name_____

SYSTEM OF EQUATIONS-ELIMINATION #1

Directions: Solve each system of equations below by *eliminating* a variable from each system. In order to eliminate a variable, you will have to use multiplication or division to modify both equations.

| | *modified equations* | | *modified equations* | | *modified equations* |

1) $5x + 7y = 58$ *15x + 21y = 174*   **2)** $4x + 9y = 84$ **3)** $6x + 8y = 62$

$3x + 2y = 26$ *15x + 10y = 130* $3x + 5y = 49$ $5x + 3y = 48$

x =_____ y =_____   x =_____ y =_____   x =_____ y =_____

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4) $8x + 3y = 79$ **5)** $2x + 7y = 54$ **6)** $10x + 5y = 60$

$9x + 2y = 82$ $7x + 3y = 60$ $4x + 3y = 26$

x =_____ y =_____   x =_____ y =_____   x =_____ y =_____

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7) $18x + 24y = 222$ **8)** $3x + 8y = 12$ **9)** $36x + 54y = 450$

$12x + 10y = 106$ $8x + 3y = 32$ $30x + 15y = 225$

x =_____ y =_____   x =_____ y =_____   x =_____ y =_____