

Algebra I
Elimination Notes

Name _____
Date _____

Steps for Elimination	Example 1	Example 2
<p>1. Rearrange the equations and line up the variables (see example 3)</p> <p>2. Multiple one or both equations by a number to get <u>opposites</u> in one variable</p> <p>3. Add the two equations and <u>eliminate</u> a variable</p> <p>4. Solve for the remaining variable</p> <p>5. Plug this into one of the original equations and solve for the second variable</p> <p>6. Write your solution as an ordered pair</p>	$7x + 3y = -5$ $2x + 3y = 5$	$4x - 3y = 15$ $6x + 5y = -25$

Example 3: $5y = 8x - 2$
 $4x - 3y = -2$

Example 4: Carlos has 32 Buffalo nickels, some with dates and some without dates. Buffalo nickels without dates are worth \$0.15, and dated Buffalo nickels are worth \$0.75. If Carlos's collection of Buffalo nickels is worth \$10.80, how many of the coins have dates on them?