**Algebra I**
**Elimination Worksheet**

Name _____

Date _____

Solve each system of equations using elimination.

1.  $-4x - 2y = -12$
    $4x + 8y = -24$

2.  $-2x - 9y = -25$
    $-4x - 9y = -23$

3.  $-4x + 9y = 9$
    $x - 3y = -6$

4.  $5x + 4y = -30$
    $3x - 9y = -18$

5. A movie theater sells 540 tickets to a matinee showing of a new animated feature.  A child matinee ticket costs $5.50 and an adult matinee ticket costs $6.00.  If a movie theater made $3060 for that showing, how many adult tickets were sold?  (Hint: let x represent child tickets and y represent adult tickets.  Write two equations, the first about the number of tickets sold, the second about the cost of tickets.  Then use elimination to solve.)

## Educreations Instructions

- Use the Educreations app on the iPad to record yourself explaining and solving one of the questions from this worksheet.
- Type the original problem with text, then use your finger to write.  Use different colors!
- After recording, name your video "Your Name, Question #, Elimination" and select it as "Private" and "Mathematics", then save.
- Once you have saved it, open the video (you can pause it) and select the link button at the top right corner.  Copy the lesson link.
- Open Safari and go to bryan.k12.oh.us and Bears Den email.  Send an email to Mrs. Cummins and paste the link to your video in the body of the email.


## Evaluation Checklist

- ✓ Solve one of the systems of equations using the elimination method
- ✓ Write the solution as an ordered pair
- ✓ Use text, colors and voice in your Educreations video
- ✓ Email your video link to Mrs. Cummins in Bears Den email