

Algebra I
Substitution Worksheet

Name _____
Date _____

Solve each system of equations using substitution.

1. $y = 4x - 3$
 $y = 3x - 5$

2. $4x + 3y = 2$
 $2x + y = 6$

3. $x = 3y - 11$
 $5x + 2y = -4$

4. $4x + 3y = 19$
 $x = -2$

5. The cost of 5 books and 10 pencils is \$36. The cost of 2 books and 40 pencils is \$18. How much do books cost and how much do pencils cost? (Hint: let x represent books and y represent pencils. Write two equations and solve using substitution.)

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 #, Substitution" 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 substitution 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