

Elimination Task Cards

Print double-sided, flipping on the long edge. Cut along the frames.

1

Add.

$$\begin{array}{r} 3x + 4y - 7 \\ + \quad 5x - 4y + 2 \\ \hline \end{array}$$

2

Subtract.

$$\begin{array}{r} 7x + 3y + 5 \\ - \quad 2x + 3y - 4 \\ \hline \end{array}$$

3

Add equation A and equation B.

A $3x + 4y = 17$

B $5x - 4y = 7$

What happens? Find x and y .

4

Solve the system.

A $7x + 3y = 17$

B $2x + 3y = 7$

5

Solve the system.

A $3x + 2y = 11$

B $7x - 4y = 17$

Nothing matches yet.
Can you make one pair of terms match?

6

Solve the system.

A $6x - 5y = -37$

B $2x + 3y = 11$

Elimination Task Cards — Backs

Answers for the cards on the other side of this sheet.

2 — answer

$$5x + 9$$

1 — answer

$$8x - 5$$

4 — answer

$$(2, 1)$$

3 — answer

$$(3, 2)$$

6 — answer

$$(-2, 5)$$

5 — answer

$$(3, 1)$$

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7

Solve the system.

A $2x + 3y = 11$

B $3x - 5y = 7$

Can you still make a pair of terms match?

8

Solve the system.

A $4x + 3y = 17$

B $6x - 5y = -22$

Bonus A

A $5x - 3y = 22$

B $2x - 3y = 7$

A group subtracted B from A
and wrote $3x - 6y = 15$.

What went wrong? Fix it and solve.

Bonus B

Solve each system.
What would each graph look like?

I

II

A $4x - 6y = 10$ **A** $4x + 6y = 10$

B $6x - 9y = 21$ **B** $6x + 9y = 15$

Bonus C

Solve the system.

A $3x = 5 - 2y$

B $4x - 22 = 5y$

Bonus D

A $3x + 8y = 31$

B $5x - 4y = 17$

You could eliminate x or y .
Which takes less work?
Solve it that way.

Elimination Task Cards — Backs

Answers for the cards on the other side of this sheet.

8 — answer

$$\left(\frac{1}{2}, 5\right)$$

7 — answer

$$(4, 1)$$

Bonus B — answer

I: no solution
II: infinitely many solutions

Bonus A — answer

$$(5, 1)$$

Bonus D — answer

$$(5, 2)$$

Bonus C — answer

$$(3, -2)$$